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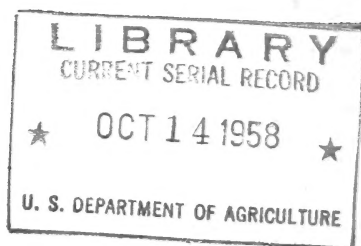
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September 1958

HYMENOPTERA OF
AMERICA NORTH OF MEXICO
SYNOPTIC CATALOG
(Agriculture Monograph No. 2)

FIRST SUPPLEMENT

Prepared by the staff and collaborators of the Hymenoptera Unit,
Insect Identification and Parasite Introduction Laboratories,
Entomology Research Division, Agricultural Research Service,
under the direction of
KARL V. KROMBEIN



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- L. F. Byars (distribution of Arizona Formicidae)
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- K. W. Cooper (taxonomy and biology of Chrysididae and Vespidae)
- W. S. Creighton (taxonomy and distribution of Formicidae)
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- W. E. Ferguson (taxonomy of *Photopsis* and *Odontophotopsis*)
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- H. P. Hopper (orthography of Ichneumonidae)
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- P. B. Kannotski (distribution of Formicidae)
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- W. E. LaBerge (taxonomy of Apidae)
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H. K. Townes (taxonomy of Ichneumonidae and Pompilidae)
A. Van Pelt (distribution and biology of southeastern Formicidae)
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N. A. Weber (taxonomy and biology of Formicidae)
F. X. Williams (distribution of California Sphecidae)
E. O. Wilson (distribution and biology of Formicidae)
I. H. H. Yarrow (information on certain Smith types of Aculeata in British Museum)

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Hymenoptera of America North of Mexico—Synoptic Catalog

(Agriculture Monograph No. 2)

FIRST SUPPLEMENT

INTRODUCTION

The "Hymenoptera of America North of Mexico—Synoptic Catalog" was published on July 11, 1951, as Agriculture Monograph No. 2. It contained references to the literature published through 1949, and to a few papers that appeared during 1950. This catalog immediately proved to be an indispensable aid to taxonomists working on Hymenoptera and to field entomologists concerned with insects in this important order. It was at once apparent that the volume of research being done in the Hymenoptera would require the issuance of periodic supplements, if this catalog was to maintain its maximum usefulness. This is the first of such supplements, and covers all the literature published from 1950-1951 through 1956.

SCOPE

Information of the following nature has been included in the Supplement: Corrections of errors in the Catalog; omissions from the Catalog; significant extensions in geographic range; new host, prey, or flower-visiting records; citations to new papers dealing with biology or taxonomy; citations to categories described since completion of the manuscript for the Catalog; generic or sub-generic transfers; citations to synonymy published since completion of the manuscript for the Catalog, and some previously unpublished synonymy; and changes in rank of the included forms.

A list of the new names proposed in this Supplement will be found on page 270.

FORMAT

Insofar as possible we have followed the sequence used in the Catalog. That is, the categories above specific rank are arranged in systematic order, while those of specific or infraspecific rank are arranged alphabetically under the generic or sub-generic heading. Recent information has indicated that a few major groups were incorrectly placed in the Catalog, or were given an inappropriate status. These changes are noted in the proper place in the text, with appropriate cross reference where this is necessary.

The treatment at the specific or infraspecific level, for all forms catalogued here for the first time, consists of a heading giving the specific name preceded by an asterisk, describer's name, distribution, and host, prey, or flower-visiting records. Below this are bibliographic citations to the original description and to any

synonyms, and to any additional papers on biology or taxonomy, as in the following example:

**titusensis* Mitchell, Fla. (Titusville, Tampa).

Colletes titusensis Mitchell, 1951. Elisha Mitchell Sci. Soc. Jour. 67: 237, figs. 16, 17. ♂.

Taxonomy: Stephen, 1954. Kans. Univ. Sci. Bul. 36: 497, fig. 84. ♀.

Corrections of errors in the Catalog, extensions of geographic range, or new host, prey, or flower-visiting records are given by citing the specific or infraspecific name and author followed by the pertinent information, as in the following example:

caerulescens subcorticalis (Walsh). Prey: *Phidippus audax* (Hentz). Remove *nigrella* (Banks) and *nanella* (Banks) from syn.

The citation of new papers dealing with taxonomy or biology is accomplished by listing the specific or infraspecific name and author, and a separate reference beneath this heading to the paper and its field, as in the following example:

fuscatus aurifer Saussure.

Biology: Snelling, 1954. Kans. Ent. Soc. Jour. 27: 154.

The transfer of a form from one genus or subgenus to another is recorded by double entries. The entry under the genus from which it is being transferred consists of a specific heading in bold-face italics followed by a statement giving the genus to which it is being transferred. The entry under the genus to which it is being transferred consists of the specific heading in bold face followed by a statement of the genus from which it is being transferred and a citation of the authority for the transfer. The two entries covering the transfer of *hendersoni* Cockerell from one subgenus of *Osmia* to another are as follows:

hendersoni Cockerell. Transf. to *Osmia* subg. *Melanosmia*, p. 1165.

hendersoni Cockerell. Transf. from *Osmia* subg. *Acanthosmioides*, p. 1165. (teste White, 1952. Kans. Univ. Sci. Bul. 35: 221).

The synonymy of species or infraspecific categories considered to be valid in the Catalog is also effected by double entries. One entry gives the formerly valid specific name in bold-face italics followed by a statement that it is a synonym of another species. The other entry gives the name of that other species in bold face, and beneath this, in synonymy position, a citation of the new synonym using the combination given in the Catalog, and a parenthetical statement as to the authority for the transfer. The synonymy of *Aporus (Aporus) hermes* Bradley under *niger* (Cresson) would be shown by the following two entries:

hermes Bradley. Syn. of *niger* (Cresson).

niger (Cresson).

Aporus (Aporus) hermes Bradley (syn. by Evans, 1956. Ent. News 67: 6).

Changes in rank are of two main types, the reduction of species to infraspecific rank and the raising of catagories from infra-specific to specific rank. Both changes are achieved by double entries. One entry gives the former specific or infraspecific name in bold-face italics followed by a statement of its present status. The other entry consists of the present specific or subspecific designation in bold face and author, followed by the phrase,

"changed status;" beneath this in synonymy position is the combination used in the Catalog and a statement as to the action taken and authority. The reduction of *Colletes crawfordi* Swenk to subspecific rank is accomplished by the following two entries: *crawfordi* Swenk. A subsp. of *texanus* Cresson.

texanus crawfordi Swenk, changed status. North. Tex. On flowers of *Physalis*.

Colletes crawfordi Swenk. Reduced to subsp. rank (*teste* Stephen, 1954.

Kans. Univ. Sci. Bul. 36: 450).

There are also some cases of synonymy at the generic and subgeneric levels. Names not listed in the Catalog are preceded by an asterisk and cited in synonymy position under the appropriate generic or subgeneric heading together with their genotype designations. For names recognized as valid in the Catalog, the synonymy is effected by double entries, as discussed above, at the specific level.

Similarly, a change in rank at the generic or subgeneric level would be shown by double entries under the appropriate generic or subgeneric headings.

Some revisional papers have been published which assign the component forms to several subgenera, whereas the Catalog has no such division into subgenera. In order to minimize the number of changes required we are indicating this assignment merely by inclusion of the subgeneric name in parentheses in bold-face italics in the specific heading, as in the following example in the genus *Perdita*:

lacteipennis canadensis Crawford. Utah. (*Cockerellia*)

ABBREVIATIONS AND SYMBOLS

The abbreviations and arrangement of titles of journals used in this work are essentially those recommended in United States Department of Agriculture Miscellaneous Publication 337, issued in 1939. The standard abbreviations are used for the various States and Provinces. Certain other abbreviations and symbols are explained as follows:

*—used before a generic, specific, or infraspecific heading to indicate a category not included in the Catalog.

(!)—*lapsus* or misspelling of a scientific name.

"♂" = ♀ or "♀" = ♂—incorrect sex determination.

♂ (♀ misdet.) or ♀ (♂ misdet.)—only one of sexes described belongs to the species catalogued.

O—an insect gall, when used in same position in citation as sex signs.

changed status—used after a specific or infraspecific heading to indicate a rank different from that accorded that form in the Catalog; this is not necessarily the same as new status.

emend.—emendation.

n. comb.—new combination; used after a specific or infraspecific heading to indicate a new generic assignment.

n. name—new name; used after a specific or infraspecific heading to indicate a new substitute name for a homonym;

used after bibliographic citation to indicate a substitute name proposed earlier for a homonym.

n. status—new status; used where a form is here accorded a rank different from that which it previously had.

n. syn.—new synonymy; used after generic or specific bibliographic citations to indicate a new synonym, followed by a parenthetical statement giving the authority and basis for the action.

preocc.—preoccupied; used after a generic or specific citation to indicate a homonym.

Abbreviations for the faunal zones and their divisions are as follows:

Bor.—Boreal

Canad.—Canadian

Huds.—Hudsonian

Transit.—Transition

Austr.—Austral

U. Austr.—Upper Austral

L. Austr.—Lower Austral

Alleghan.—Alleghanian

Austrorip.—Austroriparian

Carol.—Carolinian

Sonor.—Sonoran

Order HYMENOPTERA

Taxonomy: Muesebeck, Krombein, Townes *et al.*, 1951. U. S. Dept. Agr., Agr. Monogr. 2, 1,420 pp., 1 map (catalog of species north of Mexico).—Michener, 1953. Kans. Univ. Sci. Bul. 35: 993-995 (larvae, key to certain families).

Evolution: Wheeler, 1919. Amer. Phil. Soc. Proc. 58: 1-40 (parasitic Aculeata).

Suborder SYMPHYTA

Superfamily MEGALODONTOIDEA

Family XYELIDAE

Genus **MEGAXYELA** Ashmead, p. 7

aviingrata (Dyar). Hosts: *Carya* sp. and *Juglans cinerea*.

Family PAMPHILIIDAE

Genus **ACANTHOLYDA** A. Costa, pp. 7-9

**Acanthocnema* A. Costa, 1859. In O. Costa, Fauna Reg. Napoli, Imen., v. 3, p. 2. No included species.

Suppressed by Internatl. Comn. Zool. Nomencl., Opinion 290, Oct. 1954.

zappei (Rohwer). Hosts: *Pinus* spp.

Genus **CEPHALCIA** Panzer, pp. 9-10

**marginata* Middlekauff. Que., Mass., N. Y., Pa., Va.

Cephalcia marginata Middlekauff, 1953. Pan-Pacific Ent. 29: 133. ♂ ♀.

Biology: Daviault, 1956. Canad. Ent. 88: 488-492. Morphology: Rivard, 1955. Canad. Ent. 87: 382-399.

Genus **NEUROTOMA** Konow, p. 10

fasciata (Norton). Fla.

inconspicua (Norton). Ark., Kans.

Superfamily TENTHREDINOIDEA

Family PERGIDAE

Genus ACORDULECERA Say, pp. 12-13

dorsalis Say. Hosts: *Quercus* spp.

Family ARGIDAE

Genus ARGE Schrank, pp. 13-14

Cryptus Jurine, 1801. Suppressed by Internatl. Comn. Zool. Nomencl., 1936, not 1939.*coccinea* (Fabricius). Host: Sumac.*humeralis* (Beauvois). Hosts: Poison ivy, poison sumac.*pectoralis* (Leach). Host: Delete *Salix*, add *Betula*.**ochropa* (Gmelin) (= *rosae*, authors not Linnaeus). Ontario, Europe, Middle East, Siberia. Hosts: *Rosa* spp.*Tenthredo ochropus* Gmelin, 1790. In Linnaeus, Syst. Nat., Ed. 13., v. 1, pt. 5, p. 2657.

Taxonomy: Malaise and Benson, 1934. Archiv für Zool. 26(A): 7-8, 13.

Family CIMBICIDAE

Genus ZARAEA Leach, p. 17

americana Cresson.

Biology: Middlekauff, 1956. Jour. Econ. Ent. 49: 701.

Genus CIMBEX Olivier, pp. 17-18

Crabro Geoffroy, 1762. Hist. Ins. Paris, v. 2, p. 261. Suppressed by Internatl. Comn. Zool. Nomencl., 1936, not 1943. Publication declared unavailable for nomenclatorial purposes, *teste* Opinion 228, Internatl. Comn. Zool. Nomencl., April 1954.*Clavellarius* Olivier, 1789. Suppressed by Internatl. Comn. Zool. Nomencl., Opinion 216, March 1954.

Family DIPRIONIDAE

Genus MONOCTENUS Hartig, pp. 18-19

The known hosts for *Monoctenus* larvae are *Juniperus* and *Thuja*.

Genus NEODIPRION Rohwer, pp. 19-21

Revision: Ross, 1955. Forest Sci. 1(3): 196-209.

abbottii (Leach). Ont. south to Fla., west to Wis. Hosts: *Pinus caribea*, *P. echinata*, *P. heterophylla*, *P. palustris*, *P. resinosa*, *P. taeda*.*Lophyrus Fabricii* Leach (syn. by Ross, 1955. Forest Sci. 1: 203).*Lophyrus americanus* Leach (syn. by Ross, loc. cit. supra).*Lophyrus rileyi* Cresson (syn. by Ross, loc. cit. supra).*Neodiprion abbottii* (!) Ross, 1955. Forest Sci. 1: 199.

Biology: Hetrick, 1956. Forest Sci. 1(3): 181.

akhursti (Norton). Syn. of *pini-rigidae* (Norton).*americanus americanus* (Leach). Syn of *abbottii* (Leach).*americanus banksianae* Rohwer. A subsp. of *pratti* (Dyar)*americanus dyari* Rohwer. Delete *maura* Rohwer from syn. *N. dyari* Rohwer is a syn. of *pratti pratti* Dyar.*americanus pratti* (Dyar). A subsp. of *pratti* (Dyar).*compar* (Leach). Que., N. B., south to Ga. Hosts: *Pinus banksiana*, *P. resinosa*.

- ***deleoni** Ross. Wash. Host: *Abies grandis*.
Neodiprion deleoni Ross, 1955. Forest Sci. 1: 200, 205. ♂ ♀.
- ***demoides** Ross. Calif. Host: *Pinus albicaulis*.
Neodiprion demoides Ross, 1955. Forest Sci. 1: 201, 205. ♂ ♀.
- ***eduliculus** Ross. Colo., Utah. Host: *Pinus edulis*.
Neodiprion eduliculus Ross, 1955. Forest Sci. 1: 201, 206. ♂ ♀.
- excitans** Rohwer. Eastern, west to Tex. Hosts: *Pinus echinata*, *P. rigida serotina*, *P. taeda*.
Neodiprion (Neodiprion) excitans Rohwer, 1921. Erroneously placed as a syn. of *fabricii* (Leach) in Catalog (*teste* Ross, 1955. Forest Sci. 1: 202).
Neodiprion exitans (!) Ross, 1951. Catalog, p. 19.
 Biology: Hetrick, 1956. Forest Sci. 1(3): 182.
- fabricii** (Leach). Delete **pinus-rigida** Norton and **excitans** Rohwer from syn.
Lophyrus fabricii Leach is a syn. of **abbottii** (Leach).
- gillettei** (Rohwer). N. Mex. Host: *Pinus scopulorum*.
- ***hetricki** Ross. Va. Host: *Pinus taeda*.
Neodiprion hetricki Ross, 1955. Forest Sci. 1: 202. ♂ ♀.
 Biology: Hetrick, 1956, Forest Sci. 1(3): 182.
- insularis** (Cresson). Delete from Catalog; a valid but extralimital species.
- lecontei** (Fitch). Hosts: *Pinus* spp.
- maurus** Rohwer. Southeast. Canada, Wis., Minn. Host: *Pinus banksiana*.
Neodiprion (Neodiprion) maura Rohwer, 1918. Erroneously placed as a syn. of **americanus dyari** Rohwer in Catalog (*teste* Ross, 1955. Forest Sci. 1: 200).
- mundus** Rohwer. Ore. Host: *Pinus ponderosa*.
- nanulus** Schedl. Reduced to subsp. rank.
- ***nanulus contortae** Ross. Alta., Oreg. Hosts: *Pinus contorta*, *P. ponderosa*.
Neodiprion nanulus contortae Ross, 1955. Forest Sci. 1: 201, 207. ♂ ♀.
- nanulus nanulus** Schedl, changed status. Southeast. Canada, Northeast. U. S., west to Man. and Wis. Hosts: *Pinus banksiana*, *P. resinosa*.
Neodiprion nanulus Schedl. Reduced to subsp. rank (*teste* Ross, 1955. Forest Sci. 1: 207).
- nigroscutum** Middleton. Ont. Host: *Pinus banksiana*.
Neodiprion (Neodiprion) nigroscutum Middleton, 1933. Erroneously placed as syn. of **rileyi** Cresson in Catalog (*teste* Ross, 1955. Forest Sci. 1: 203).
- pinetum** (Norton). Southeast. Canada, Northeast. and North Central U. S. Host: *Pinus strobus*.
- pini-rigidae** (Norton). Eastern. Host: *Pinus rigida*.
Lophyrus pinus-rigida Norton. A valid sp., not a syn. of **fabricii** (Leach) (*teste* Ross, 1955. Forest Sci. 1: 201).
Lophyrus Akhursti Norton. (Syn. by Ross, *loc. cit. supra*).
- pratti banksianae** Rohwer. N. B. west to Man., Mich., Wis., Minn. Hosts: *Pinus banksiana*, *Pinus* spp. Ref. and syn. in Catalog under **americanus banksianae** Rohwer.
- ***pratti paradoxicus** Ross. Mass., Conn. Hosts *Pinus banksiana*, *P. rigida*.
Neodiprion pratti paradoxicus Ross, 1955. Forest Sci. 1: 199, 203. ♂ ♀.
- pratti pratti** (Dyar), changed status. Md., Va., Ind. Host: *Pinus taeda*.
Neodiprion americanus pratti (Dyar) of Catalog. Incorrectly placed as subsp. of **americanus** (*teste* Ross, 1955. Forest Sci. 1: 203).
Neodiprion dyari Rohwer. (Syn. by Ross, *loc cit. supra*).
 Biology: Hetrick, 1956. Forest Sci. 1(3): 183.
- rileyi** (Cresson). Delete **nigroscutum** Middleton from syn. **Lophyrus rileyi** is a syn. of **abbottii** (Leach).

scutellatus Rohwer. Host: "On fir."

sertifer (Geoffroy). Ill., Wis. Hosts: *Pinus echinata*, *P. resinosa*, *P. rigida*.

Tenthredo sertifera Geoffroy. In Fourcroy, 1785. Ent. Parisiensis, pt. 2, p. 378.

swainei Middleton. Northeast. U. S. southeast. Canada, Wis. Host: *Pinus banksiana*.

**taedae linearis* Ross. Va., Ark., Tex. Host: *Pinus taeda*.

Neodiprion taedae linearis Ross, 1955. Forest Sci. 1: 199, 204. ♂ ♀.

**taedae taedae* Ross. Va. Host: *Pinus taeda*.

Neodiprion taedae taedae Ross, 1955. Forest Sci. 1: 199, 204. ♂ ♀.

Biology: Hetrick, 1941. Jour. Econ. Ent. 34: 373, 377. (*N. americanum*). Hetrick, 1956. Forest Sci. 1(3): 183.

tsugae Middleton. B. C. Alaska.

**ventralis* Ross. Colo. Host: *Pinus ponderosa*.

Neodiprion ventralis Ross, 1955. Forest Sci. 1: 201, 206. ♂ ♀.

**weneri* Ross. Ariz.

Neodiprion weneri Ross, 1955. Forest Sci. 1: 200, 205. ♀.

DIPRION subgenus DIPRION Schrank, p. 21

Pteron Jurine, 1801. Suppressed by Internatl. Comn. Zool. Nomencl., 1936, not 1945.

similis (Hartig). Wis.

Family TENTHREDINIDAE

Genus HEMITAXONUS Ashmead, p. 22

dubitatus (Norton). Host: *Onoclea*.

Genus STRONGYLOGASTER Dahlbom, pp. 22-23

distans Norton.

Biology: Beer, 1955. Kans. Univ. Sci. Bul. 37: 238-246.

impressatus Provancher. Hosts: Ferns.

multicinctus Norton, Host: Bracken fern, *Pteris aquilina*.

politus Cresson. Host: Bracken fern, *Pteris aquilina*.

Strongylogaster politus Provancher, 1882. Nat. Canad. 13: 294. ♀. Preocc.

soriculatipes Cresson.

Strongylogaster soriculatus Provancher, change ref. to 1882, Nat. Canad. 13: 296. ♀.

tibialis Cresson.

Biology: Beer, 1955. Kans. Univ. Sci. Bul. 37: 227-238.

ANEUGMENUS subgenus ANEUGMENUS Hartig, p. 23

flavipes (Norton). Host: Bracken fern, *Pteris aquilina*.

DOLERUS subgenus DOLERUS Panzer, pp. 24-27

Unicolor Group, p. 25

**nitens* Zaddach. Holarctic.

**Dolerus coracinus* Stephens, 1835. Illus. Brit. Ent. Mand., v. 7, p. 87. Preocc.

Dolerus nitens Zaddach, 1859. Prog. Friedrichs Coll., Königsberg, p. 16. ♂ ♀.

Dolerus wanda Ross, 1935. N. syn. teste R. B. Benson in litt.

wanda Ross. Syn. of *nitens* Zaddach.

Similis Group, pp. 26-27

elderi Kincaid. Holarctic.

**Dolerus pusillus* Jakovlev, 1891. Soc. Ent. Rossica Horae 26: 32.
♀. Preocc.

**Dolerus pullulus* Zhelochovtsev, 1928. Zool. Anz, 79(3-4): 107.
♂ ♀.

Taxonomy: Benson, 1956. Roy. Ent. Soc. London Proc., ser. B, 25(3-4): 55.

similis similis (Norton). Host: *Equisetum*.

yukonensis yukonensis Norton, changed status. Northwest. North America; N. Eurasia. Host: *Equisetum*.

Dolerus (Dolerus) yukonensis Norton. Reduced to subsp. rank (*teste* Benson, 1956. Roy. Ent. Soc. London. Proc., ser. B, 25(3-4): 58 (lengthy European synonymy)).

Gessneri Group, p. 27

frisoni Ross. Syn of **pratensis** Linnaeus.

gessneri André. Reduced to subsp. rank. Delete *Dolerus neoaprilis* MacGillivray and *konowi* MacGillivray from syn.

gessneri konowi MacGillivray, changed status. Holarctic. *D. gessneri gessneri* André occurs in North England and Central Europe.

Dolerus konowi MacGillivray, 1914.

**Dolerus kamtchaticus* Malaise, 1932. Arkiv för Zool. 23(A): 18.
♂ ♀.

Taxonomy: Benson, 1956. Roy. Ent. Soc. London Proc., ser. B, 25(3-4): 59.

***pratensis** Linnaeus. Holarctic.

Tenthredo pratensis Linnaeus, 1758. Syst. Nat. Ed. 10, p. 556. ♀.

Dolerus frisoni Ross, 1929. N. syn. *teste* R. B. Benson in litt.

***subfasciatus neoaprilis** MacGillivray, changed status. Transcont., north. U.S. and Canada. *D. subfasciatus subfasciatus* Smith occurs in Japan.

Dolerus neoaprilis MacGillivray, 1908.

Taxonomy: Benson, 1956. Roy. Ent. Soc. London Proc., ser. B, 25: 59.

DOLERUS subgenus LODERUS Konow, pp. 27-28

Taxonomy: Benson, 1956. Roy. Ent. Soc. London Proc., ser. B, 25 (3-4): 62.

acidus (MacGillivray). Reduced to subsp. rank.

albifrons (Norton). Reduced to subsp. rank.

apricus (Norton). Reduced to subsp. rank.

eversmanni acidus (MacGillivray), changed status. North. U.S. and Canada; East Asia. *D. (L.) eversmanni eversmanni* Kirby occurs in Europe.

genucinctus napaesus MacGillivray, changed status. *D. (L.) genucinctus genucinctus* Zaddach is Eurasian.

napaesus MacGillivray. Reduced to subsp. rank.

pratorum albifrons (Norton), changed status. Transcont.; E. Asia. *D. (L.) pratorum pratorum* (Fallén) occurs in Europe.

vestigialis apricus (Norton), changed status. *D. (L.) vestigialis vestigialis* (Klug) occurs in Europe.

Genus CALIROA O. Costa, pp. 28-29

lineata MacGillivray. N. J. Host: *Quercus palustris*.

Genus MESSA Leach, p. 30

populi (Marlatt). Syn. of **populifoliella** (Townsend).

***populifoliella** (Townsend). Northeast., west to S. Dak., Ariz., and N. Mex.

Host: *Populus*.

Cottonwood leafminer, Townsend, 1892. Ins. Life 4: 26-27.

Tineidae ? larva, Townsend, 1892. Zoe 3: 234-236.

Blennocampa populifoliella Townsend, 1893. Canad. Ent. 25: 304.

Scolioneura populi Marlatt, 1895. Ent. Soc. Wash. Proc. 3: 235.

♂ ♀. N. syn.

Scolioneura luteopicta Rohwer, 1911. U.S. Natl. Mus. Proc. 41: 398.

♂ ♀. N. syn.

Genus PROFENUSA MacGillivray, p. 30

alumna (MacGillivray). Ont. Host: *Betula*.

Biology and Taxonomy: Anonymous, 1955. Canada Dept. Agr., Forest

Biol. Div., Bi-Monthly Prog. Rpt. 11 (5): 1-2.

Genus HOPLOCAMPA Hartig, p. 33

testudinea (Klug). Conn.

Genus CRATEROCERCUS Rohwer, p. 33

albidovariata (Norton). Host: *Quercus coccinea*.

phytophagica (Dyar). Host: *Quercus alba*.

quercivorus Rohwer. Wis.

Genus ANOPLONYX Marlatt, p. 36

luteipes (Cresson). Minn.

Genus NEMATINUS Rohwer, pp. 36-37

pontanioides (Marlatt). Oreg., not eastern.

unicolor (Marlatt). Host: *Betula alba*.

Genus PRISTIPHORA Latreille, pp. 37-39

Revision: Marlatt, 1896. U.S. Dept. Agr., Div. Ent. Tech. Ser. 3: 113-122.

Genus PACHYNEMATUS Konow, pp. 39-41

Extensicornis Group, pp. 39-40

clibrichellus (Cameron). Alaska. Host: *Carex*.

sporax Ross. Calif. Host: Wheat.

Corniger Group, p. 41

corniger Norton. Host: *Carex*.

Unplaced Names, p. 41

This section should follow the Corniger Group, p. 41.

NEMATUS subgenus PTERONIDEA Rohwer, pp. 42-46

Ventralis Group, pp. 42-43

populi (Marlatt).

Nematus hudsonii magnus Dyar, change 1894 to 1895.

Erythrogaster Group, pp. 43-44

erythrogaster Norton. Host: *Carpinus*.

latifasciatus Cresson. Host: *Betula*.

Mendicus Group, p. 44

tibialis Newman. Eastern, west to Wis.

Ribesii Group, pp. 44-45

odoratus (Marlatt). Delete; replaced by *salicis-odoratus* Dyar.

salicis-odoratus Dyar. Eastern, west to Ill. Hosts: *Salix*, *Populus*. Replaces *odoratus* (Marlatt); *salicis-odoratus* Dyar is valid and has priority.

Ungrouped Species, pp. 45-46

**reticulatus* Holmgren. Alaska; Siberia.

Nematus reticulatus Holmgren, 1883. Ent. Tidskr. 4: 143. ♀

NEMATUS subgenus PONTANIA O. Costa, pp. 46-48

The species of this subgenus produce galls or leaf-folds on *Salix* or *Populus*.

maurus (Rohwer). Delete; placed in syn. of *Amauronematus suavis* (Ruthe), p. 53, in Catalog.

**petiolaridis* (Rohwer), n. comb. Ont. Host: Leaf gall on *Salix petiolaris*.

Pontania petiolaridis Rohwer, 1917. In Cosens, Ent. Soc. Ontario Ann. Rpt. 47: 18-19. ♂ ♀.

**Pontania petiolaris* Felt, 1917. N. Y. State Mus. Bul. 200: 34. N. syn.

Genus EUURA Newman, pp. 48-51

Species of this genus produce galls on willow.

Genus AMAURONEMATUS Konow, pp. 51-53

xanthus Rohwer. Wis.

Unplaced Nematinae, pp. 54-55

**Nematus tetraopsis* Provancher, 1895. Nat. Canad. 22: 79. ♀.

Genus EMPRIA Lepeletier, pp. 55-56

coryli (Dyar). Wis.

multicolor (Norton).

Emphytus hullensis Provancher, change 1885 to 1886.

Genus AMETASTEGIA A. Costa, pp. 57-58

glabrata (Fallén).

Taxonus nigrisoma Norton, change 1892 to 1862.

Strongylogaster abnormis Provancher, change 1889 to 1885.

inornata (Say). Fla.

pallipes (Spinola).

Tenthredo pallipes Provancher, change to *Emphytus p.*; delete "♂".

Genus APHILODYCTIUM Ashmead, p. 58

fidum (Cresson).

Taxonus robustus Provancher, change ref. to 1882. Nat. Canad. 13: 294. ♀.

Genus MACREMPHYTUS MacGillivray, p. 59

semicornis (Say). Wis.

tarsatus (Say). Wis.

Genus TAXONUS Hartig, pp. 59-60

pallicoxus (Provancher).

Strongylogaster pallicoxus Provancher, change 1889 to 1885.

proximus (Provancher).

Strongylogaster proximus Provancher, change 1889 to 1885.

Genus DIMORPHOPTERYX Ashmead, p. 61

pinguis (Norton). Add "1923. Ill." after MacGillivray in orig. cit. of *scopulosus*.

Genus PSEUDOSIOBLA Ashmead, p. 62

Revision: Rohwer, 1911. U. S. Natl. Mus. Proc. 41: 403-404.

floridana (Provancher).

Taxonus floridanus Provancher, change 1889 to 1888.

Genus TOMOSTETHUS Konow, p. 62

multicinctus (Rohwer). Ont., Calif.

Genus PAREOPHORA Konow, pp. 63-64

minuta (MacGillivray). Md., Ont. Host: *Fraxinus*.

Genus RHADINOCERAE Konow, p. 64

nubilipennis (Norton). Host: *Veratrum viride*.

Genus PHYMATOCERA Dahlbom, p. 64

Melanoselandria Ashmead, 1900. Delete; manuscript name.

**Melanoselandria* MacGillivray, 1909. Canad. Ent. 41: 404.

Type: *Melanoselandria zabriskiei* MacGillivray. By monotypy.

fumipennis (Norton).

**Melanoselandria zabriskiei* MacGillivray, 1909. Canad. Ent. 41: 404.

zabriskiei (MacGillivray). Syn. of *fumipennis* (Norton).

PERICLISTA subgenus PERICLISTA Konow, pp. 65-66

linea Stannard.

Biology: Beer, 1955. Kans. Ent. Soc. Jour. 28: 19-26.

PERICLISTA subgenus NEOCHARACTUS MacGillivray, p. 66

Alphanisus MacGillivray, change to *Aphanisus* MacG.

Genus HALIDAMIA Benson, p. 69

affinis (Fallén). N. J. Host: *Galium aparine*.

Unplaced Species of Blennocampinae, p. 69

**Monophadnus pallipes* Provancher, 1895. Nat. Canad. 22: 80. ♂ ♀.

Genus TENTHREDO Linnaeus, pp. 71-78**Piceocincta Group, p. 72**

piceocincta (Norton).

Tenthredo ruficoxa Provancher, change 1886 to 1885.

Angulifera Group, p. 73

angulifera (Norton). Wis.

mantha Ross. Wis.

Leucostoma Group, pp. 73-74

leucostoma Kirby. Wis.

Genus MACROPHYA Dahlbom, pp. 79-82

bifasciatus (Say), change to *bifasciata* (Say).

fumator Norton.

Synairema pacifica Provancher, change 1889 to 1885.

pulchella (Klug). Hosts: *Aster*, *Solidago*, *Rudbeckia*.

trisyllaba (Norton). Host: *Sambucus*.

Epinota Complex, pp. 81-82

albomaculata (Norton). Wis.

epinota (Say). Host: *Sambucus*.

externa (Say). Host: *Carya*.

tibiator Norton. Host: *Sambucus*.

Unplaced Species of Tenthredinidae, p. 82

**Emphytus nigristigma* Provancher, 1888. Addit. Corr. Faune Ent. Canada Hym., p. 348. ♀.

**Nematus decoratus* Provancher, 1888. Addit. Corr. Faune Ent. Canada Hym., p. 149. ♂.

**Selandria canadensis* Provancher, 1885. Addit. Corr. Faune Ent. Canada Hym., p. 7. ♀.

**Selandria paupera* Provancher, 1883. Faune Ent. Canada Hym., p. 742.

**Strongylogaster albosectus* Provancher, 1878. Nat. Canad. 10: 168. ♀.

Superfamily SIRICOIDEA**Family SIRICIDAE****Genus SIREX Linnaeus, p. 83**

cyaneus Fabricius. Delete **varipes** Walker from syn.

edwardsii Brullé. Wis.

***juvencus** (Linnaeus). Labrador, Newfoundland; Europe.

Ichneumon juvencus Linnaeus, 1758. Syst. Nat., ed. 10, v. 1, p. 560.

***longicauda** Middlekauff. Calif. Host: *Abies concolor*.

Sirex longicauda Middlekauff, 1948. Pan-Pacific Ent. 24: 189. ♀.

nigricornis Fabricius. Wis.

***noctilio** Fabricius. Ont.; Europe.

Sirex noctilio Fabricius, 1793. Ent. Syst., v. 2, p. 130.

varipes Walker. Mont. and Wyo. west to B. C., Wash., Oreg., and Calif. Hosts: *Picea sitchensis*, *Pinus contorta*, *P. ponderosa*, *Abies lasiocarpa*.

Sirex varipes Walker, 1866. In Lord, Naturalist in Vancouver Is. and B. C., v. 2, p. 342. ♀.

Genus UROCERUS Geoffroy, p. 84

Delete *Urocerus* Geoffroy, 1762. Hist. Ins. Paris, v. 2, p. 264.

This publication not available for nomenclatorial purposes, *teste* Opinion 228, Internatl. Comm. Zool. Nomencl., April 1954.

***Genus UROCERUS Fourcroy**

Urocerus Fourcroy, 1785. Ent. Parisiensis, pt. 2, p. 363.

Type: *Ichneumon gigas* Linnaeus. By monotypy. Replaces *Urocerus* Geoffroy, p. 84.

cressoni Norton. Fla., Wis.

***flavicornis** (Fabricius). Labrador and N. Que. west to Alta., Mont., Wyo., Colo., N. Mex., Utah, Idaho, and Oreg., north to Alaska. Hosts: *Abies lasiocarpa*, *Picea sitchensis*, *Pinus murrayana*, *Pseudotsuga taxifolia*.

Sirex flavicornis Fabricius, 1781. Spec. Ins., v. 1, p. 418.

**taxodii* (Ashmead). D. C. south to Fla., west to Mo. Host: *Taxodium distichum*.

Sirex taxodii Ashmead, 1904. Canad. Ent. 36: 63. ♂ ♀.

Genus XERIS A. Costa, p. 84

Revision: Maa, 1949. Notes d'Ent. Chinoise (Mus. Heude) 13: 79-89.

macgillivrayi Bradley. Syn. of *tarsalis* Cresson.

morrisoni (Cresson). Reduced to subsp. by Maa, 1949. Delete *tarsalis*, (Cresson) and *indecisus* (MacGillivray) from syn.

morrisoni indecisus (MacGillivray), changed status. Utah, Wash., Oreg., Calif. Hosts: *Abies concolor*, *A. grandis*, *A. lasiocarpa*, *Libocedrus decurrens*, *Picea sitchensis*, *Tsuga heterophylla*.

Urocerus indecisus MacGillivray. Not a syn. of *morrisoni*, but a subsp. (teste Maa 1949. Notes d'Ent. Chinoise (Mus. Heude) 13: 85).

morrisoni morrisoni (Cresson), changed status. Colo. Hosts: *Picea pungens*, *Pseudotsuga taxifolia*, *Abies concolor*.

Xeris morrisoni (Cresson), of Catalog, in part. Reduced to subsp. rank (teste Maa 1949. Notes d'Ent. Chinoise (Mus. Heude) 13: 85).

spectrum (Linnaeus). Reduced to subsp. by Maa, 1949. References and syn. in catalog under *spectrum* apply to *spectrum spectrum*.

spectrum spectrum (Linnaeus), changed status. Holarctic; N. B., Maine, and Conn. west to Rocky Mountain States. Hosts: *Abies lasiocarpa*, *Picea pungens*, *Pinus contorta*, *P. murryana*, *Pseudotsuga taxifolia*.

**spectrum townesi* Maa. Mont., B. C., Wash., Oreg. Hosts: *Abies grandis*, *A. lasiocarpa*, *Picea sitchensis*, *Pseudotsuga taxifolia*, *Tsuga heterophylla*.

Xeris spectrum townesi Maa, 1949. Notes d'Ent. Chinoise (Mus. Heude) 13: 88.

tarsalis (Cresson). Wash., Oreg., Calif. Host: *Cupressus macrocarpa*, ? *Thuja plicata*.

Urocerus tarsalis Cresson. A valid sp., not a syn. of *morrisoni* (Cresson) (teste Maa, 1949. Notes d'Ent. Chinoise (Mus. Heude) 13: 82).

Xeris macgillivrayi Bradley (teste Maa, loc. cit. supra).

Family XIPHYDRIIDAE

Classification: Maa, 1949. Notes d'Ent. Chinoise (Mus. Heude) 13: 20-76.

Maa indicates that probably 5 Nearctic species belong in *Xiphydria* Latreille, and 4 Nearctic species belong in *Xiphydriola* Semenov-Tian-Shanskii. A revision of the Nearctic species will be required to determine the correctness of these generic segregations.

Family ORUSSIDAE

Genus ORUSSUS Latreille, p. 86

occidentalis Cresson. References in syn. to *modestus*, *abietes*, *pini*, *relativus*, *hopkinsi* should be Rohwer, 1912, not 1925.

sayii Westwood. In orig. cit. of *Sayii* delete "(1832-1834)" and change "♀" to "♂ = ♀."

Orussus terminalis Newman (syn. by Pratt, 1938. Psyche 45: 95 and Guiglia, 1943. (Genoa) Mus. Civ. Stor. Nat. Ann. 62: 105).

Biology: Cooper, 1953. Rochester Acad. Sci. Proc. 10: 38-68, 2 pls.

terminalis Newman. Syn. of *sayii* Westwood.

Superfamily CEPHOIDEA

Family CEPHIDAE

Genus CAENOCEPHUS Konow, p. 87

aldrichi Bradley. Calif. Host: *Conium maculatum*.

CEPHUS subgenus CEPHUS Latreille, pp. 88-89

Astatus Jurine, 1801. Suppressed by Internatl. Comn. Zool. Nomencl., 1936, not 1939.

Suborder APOCRITA

Superfamily ICHNEUMONOIDEA

Family STEPHANIDAE

Biology: Rodd, 1951. Austral. Zool. 11 (pt. 4): 341-343.

Family BRACONIDAE

Genus EPHEDRUS Holiday, p. 91

incompletus (Provancher).

Biology: Wheeler, 1923. Ent. Soc. Amer. Ann. 16: 14-21.

nitidus Gahan. B. C. Host: *Myzus cerasi* (F.)

Genus PRAON Haliday, pp. 91-92

artemisaphis C. F. Smith. Wash.*coloradensis* Ashmead. Wash.*occidentalis* Baker. Wis.**palitans* Muesebeck. Ky.; Italy, Israel, France, Yugoslavia. Hosts: *Pterocallidium trifolii* (Mon.) and *P. sp.* on alfalfa.*Praon palitans* Muesebeck, 1956. Brooklyn Ent. Soc. Bul. 51: 27. ♀ ♂.*unicus* C. F. Smith. Wash.*virginiensis* Ashmead. Mich.

APHIDIUS subgenus XENOSTIGMUS C. F. Smith, p. 92

bifasciatus Ashmead. Wash.

APHIDIUS subgenus PROTAPHIDIUS Ashmead, pp. 92-93

bicolor Ashmead. Wis.*californicus* Ashmead. B. C., Alta.*juniperaphidis* Gahan. B. C.*takomaensis* C. F. Smith. Sask. Host: *Cinara hottesi* (G. and P.).

APHIDIUS subgenus APHIDIUS Nees, pp. 93-95

berberidis C. F. Smith. Wash.**cingulatus* Ruthe. Iceland, Greenland.*Aphidius cingulatus* Ruthe, 1859. Stettin. Ent. Zeit. 20: 315. ♀ ♂.*floridaensis* C. F. Smith. Tex. Host: *Aphis gossypii* Glov.*nigripes* Ashmead. Maine, N. C., Mich., Kans., Minn.*nigriteleus* C. F. Smith. Maine, Md., D. C., Calif., Wash. Host: *Macrosiphum solanifolii* (Ashm.)

ohioensis C. F. Smith. Calif., Kans. Host: *Macrosiphum erigeronensis* (Thos.).

phorodontis Ashmead. Maine, Idaho. Host: *Capitophorus* sp.
Biology: Wheeler, 1923. Ent. Soc. Amer. Ann. 16: 14-29.

polygonaphis (Fitch). After *Lysiphlebus succineus* Viereck change "♂" to "♀, not ♂."

ribis Haliday. Man.

Biology: Wheeler, 1923. Ent. Soc. Amer. Ann. 16: 16-23.

APHIDIUS subgenus LYSIPHLEBUS Foerster, pp. 95-96

testaceipes (Cresson). South. Canada.

TRIOXYS subgenus TRIOXYS Haliday, pp. 96-97

***utilis** Muesebeck. Ky., Nebr.; Italy, France. Hosts: *Pterocallidium trifolii* (Mon.) and *P.* sp. on alfalfa.

Trioxys utilis Muesebeck, 1956. Brooklyn Ent. Soc. Bul. 51: 26. ♀ ♂.

Genus DIAERETUS Foerster, p. 97

rapae (M'Intosh). Kans., Ariz., Wash., South. Canada.

Biology: Wheeler, 1923. Ent. Soc. Amer. Ann. 16: 17-19.

salicaphis (Fitch). Wash., Sask. Host: *Neothomasia populicola* (Thos.)

Genus ARIDELUS Marshall, p. 98

fisheri Viereck. Host: *Euschistus servus euschistoides* (Voll.)

Genus METEORUS Haliday, pp. 98-101

angustipennis Muesebeck. Tenn.

argyrotaeniae Johansen. Oreg., Calif. Hosts: *Spilonota ocellana* (D. and S.), *Archips argyrospila* (Wlkr.).

autographae Muesebeck. Newfoundland, N. S. Host: *Hemerocampa leucostigma* (J. E. Smith).

bakeri Cook and Davis. Utah, Mont., Wash., N. B. to Sask. Host: *Hyphantria textor* (Harr.).

campestris Viereck. Remove from synonymy under **indagator** (Riley). Que., Ont. Host: *Dioryctria reniculella* (Grote).

Meteorus loxostegei Viereck. N. syn. (based on exam. of type of *campestris* by C. F. W. Muesebeck).

cingiliae Muesebeck. Ont., N. B.

communis (Cresson). Hosts: *Amphipyra pyramidoides* Gn., *Orthosia hibisci* (Gn.), *O. revicta* (Morr.), *Lithophane bethunei* (Grote and Rob.), *Eupsilia sidus* (Gn.).

dimidiatus (Cresson). B. C. Host: *Tortrix pallorana* (Rob.)

fumipennis Muesebeck. B. C.

hyphantriae Riley. Hosts: *Nepytia canosaria* (Wlkr.), *Acrionicta* sp., *Olene plagiata* (Wlkr.).

hypophlaei Cushman. Calif. Host: *Dendroctonus monticolae* Hopk.

indagator (Riley). N. B., Ont. Host: *Acrobasis rubrifasciella* Pack. Remove **campestris** Viereck from synonymy.

islandicus (Ruthe). N. W. T. (Arctic Region).

***leviventris** (Wesmael). Europe, Iceland, Greenland, all of U. S., south. Canada.

Perilitus leviventris Wesmael, 1835. Nouv. Mem. Acad. Sci. Bruxelles 9: 46. ♀.

Perilitus vulgaris Cresson (Syn. by Petersen, 1956. The Zoology of Iceland 3 (49-50): 24).

loxostegei Viereck. Syn. of *campestris* Viereck.

niveitarsis (Cresson). N. S., N. Y., Va., Ga. Hosts: *Salebria virgatella* (Clem.), *Acrobasis betulella* Hulst, *A. rubrifasciella* Pack.

politus (Provancher). Que., Sask., B. C.

reticulatus Muesebeck. Idaho, Newfoundland to B. C. Hosts: *Semiothisa granitata*, *S. sexmaculata* (Pack.).

tauricornis (Provancher). Labrador to Alaska.

**tersus* Muesebeck. Calif. (Carlsbad). Host: *Sabulodes caberata* (Gn.).

Meteorus tersus Muesebeck, 1956. Pan-Pac. Ent. 32: 25. ♀ ♂.

tetralophae Muesebeck. Ont., Iowa. Hosts: *Dioryctria disclusa* Heinr., *Tetralopha asperatella* (Clem.).

trachynotus Viereck. Hosts: *Sparganothis pettitana* (Rob.), *Acleris variana* (Fern.).

Biology: McGugan, 1955. Canad. Ent. 87: 179-187.

versicolor (Wesmael). Que., B. C. Host: *Protoboarmia porcelaria* (Gn.).

vulgaris (Cresson). Syn. of *leviventris* (Wesmael).

Genus MICROCTONUS Wesmael, p. 102.

**aethiops* (Nees). N. D.; Europe. Host: *Sitona cylindricollis* Fahr.

Perilitus aethiops Nees, 1834. Hym. Ich. Aff. Monog., v. 1, p. 32. ♂.

eleodis (Viereck). Alta., Sask.

mellinus (Provancher). Canada, Mich., Tenn., Fla.

nigritus (Provancher). N. B., Man. Hosts: *Hypomolyx piceus* (DeG.) *Altica ambiens alni* (Harr.).

vittatae Muesebeck. Wash. Hosts: *Phyllotreta striolata* (F.), *P. bipustulata* (F.).

Genus WESMAELIA Foerster, p. 102

pendula Foerster. Ariz., Yukon.

Genus SYNTRETUS Foerster, pp. 102-103

brevicornis Muesebeck. Wis.

vigilax (Provancher). Que.

Genus EUPHORIAELLA Ashmead, p. 103

incerta (Ashmead). N. B.

**sommermanae* Muesebeck. Conn. Host: *Anomopsocus amabilis* (Walsh).

Euphoriella sommermanae Muesebeck, 1956. Ent. Soc. Wash. Proc. 58: 148. ♀ ♂.

Genus EUPHORUS Nees, pp. 103-104

maculipennis (Ashmead). Ont. Delete Colo.

pallipes (Curtis). Wash., B. C.

Genus MACROCENTRUS Curtis, pp. 104-107

aegeriae Rohwer. N. S. to B. C. Host: *Zeiraphera ratzburgiana* Sax.

affinis Muesebeck. Mich.

ancyliovorus Rohwer. N. S. to Man. Hosts: *Acleris oxycoccana* (Pack.), *Epiblema strenuana* (Wlkr.), *Gnorimoschema operculella* (Zell.), *Melissopus latiferreanus* (Wlsm.), *Paralobesia viteana* (Clem.), *Phalonia hospes* (Wlsm.).

Biology: Fink, 1926. Jour. Agr. Res. 12: 1121-1134.—Finney, Flanders and Smith, 1947. Hilgardia 17: 437-483.

- atratus** Muesebeck. Wis., Ariz., Prince Edward Island, B. C.
clypeatus Muesebeck. Mich.
crassipes Muesebeck. Que., Ont., Sask.
cuniculus Walley. Man., Sask.
delicatus Cresson. Que. to Man. Host: *Grapholitha tristrigana* (Clem.)
exartemae Walley. Que. Host: *Archips rosaceana* (Harr.).
gravitarsis Muesebeck. Oreg.
impressus Muesebeck. Wis., N. S. to Ont. Hosts: *Psilicorsis fletcherella* Gibs., *P. faginella* (Chamb.).
incompletus Muesebeck. Alta., Sask.
innuitorum Walley. Keewatin Dist.
instabilis Muesebeck. Hosts: *Acrobasis rubrifasciella* Pack., *Homaledra sabalella* (Chamb.).
 Biology: Nickels, Pierce, and Pinkney, 1950. U. S. Dept. Agr. Tech. Bul. 1011: 8-9.
iridescens French. Sask. Hosts: *Archips fractivittana* (Clem.), *A. conflictana* (Wlkr.), *A. cerasivorana* (Fitch).
longicornis Provancher. Que., Mich.
nigridorsis Viereck. N. S., B. C. Host: *Archips persicana* (Fitch).
pallisteri DeGant. Fla.
pectoralis Provancher. Que.
peroneae Muesebeck. Newfoundland, N. B., Minn. Hosts: *Argyretaenia occultana* Freem., *Choristoneura fumiferana* (Clem.).
reticulatus Muesebeck. Md., Mich.
texanus Muesebeck. Fla.
uniformis Provancher. N. S. to Man., Fla. Hosts: *Semiothisa granitata* (Gn.), *Caripeta angustiorata* (Wlkr.), *Anavitrinella pampinaria* (Gn.), *Alypia langtoni* Coup.

Genus CENOCOELIUS Westwood, pp. 107-108

ashmeadii Dalla Torre.

Capitonius rubriceps Provancher, n. syn. Preocc. (Syn. based on examination of type by C. F. W. Muesebeck.)

Capitonius provancheri Rohwer, n. syn. (N. name for *rubriceps* Provancher).

provancheri (Rohwer). Syn. of *ashmeadii* Dalla Torre.

Genus HELCONIDEA Viereck, p. 108

ferruginea (Brues). Colo. Host: *Phymatodes varius* (F.).

ligator (Say). Que., Ont. Host: *Magdalis armicollis* (Say).

occidentalis (Cresson). N. B., Que., Ont., B. C.

Genus HELCON Nees, p. 108

**Wroughtonia* Cameron, 1889. Manchester Lit. and Phil. Soc. Mem. 43: 56.

Type: *Wroughtonia cornuta* Cameron. By monotypy.

pedalis Cresson. Que. to Yukon. Host: *Xyltrechus annosus* Say.

Genus ZELE Curtis, p. 109

crassicalcarata Viereck. N. B., Que., Ont. Host: *Amathes smithi* (Snell.).

Subfamily BLACINAE, p. 109

Taxonomy: Martin, 1956. Canada Dept. Agr. Pub. 965: 7-9.

*Tribe BLACINI

Place in Blacinae before *Neoblacus* Ashmead, p. 110.Genus *ORGILUS* Haliday, p. 111*maculiventris* (Cresson).

Biology: Nickels, Pierce, and Pinkney, 1950. U. S. Dept. Agr. Tech. Bul. 1011: 12.

Genus *EUBADIZON* Nees, pp. 111-112*crassigaster* (Provancher). Wis., Minn. Host: *Pissodes dubius* Rand.*gracile* Provancher. N. B. to B. C., Calif. Hosts: *Recurvaria milleri* Busck, *Diorctria reniculella* (Grote), *Choristoneura fumiferanae* (Clem.), *Archips* sp.*major* (Cresson). Host: *Magdalis barbata* (Say).*orchesia* (Ashmead). Ill., Iowa. Host: *Bolitotherus cornutus* (Panz.)*pleurale* Cresson. Que., Ont., Fla., Idaho. Host: *Epinotia lindana* (Fern.)*strigitergum* Cushman. Host: *Pseudohylesinus* sp. in Douglas fir. Change 1929 to 1930.

*Tribe TRIASPIDINI

Place in Blacinae after *Microtypus* Ratzeburg, p. 113.

Revision: Martin, 1956. Canada Dept. Agr. Pub. 956: 10-157.

Genus *UROSIGALPHUS* Ashmead, pp. 113-114

Revision: Martin, 1956. Canada Dept. Agr. Pub. 965: 102-137.

arizonensis Crawford. Host: *Bruchus desertorum* Lec.*armatus* Ashmead. Md., W. Va.*barberi* Crawford. Que., Ont. Hosts: *Curculio pardalis* (Chitt.), *Curculio* spp.*bruchii* Crawford. Ariz. Hosts: *Bruchus prosopis* Lec., *B. sallei* Sharp, *Merobruchus hvardiae* Bridw.*crassisculptus* Cushman. Pa., Ill.*femoratus* Crawford. N. Y., Utah, Ariz.**forbesi* Martin. Ala. (Birmingham). Host: ? *Curculio* sp.*Urosigalphus forbesi* Martin, 1956. Canada Dept. Agr. Pub. 965: 104, 118. ♀.*neomexicanus* Crawford. Colo.**nigrescens* Martin. Ariz. (Santa Rita Mts.).*Urosigalphus nigrescens* Martin, 1956. Canada Dept. Agr. Pub. 965: 104, 115. ♂.*pini* Cushman. Host: *Cylindrocopturus longulus* (Lec.).*punctifrons* Crawford. Ariz.*robustus* Ashmead. Mich., Iowa.**truncatus* Martin. Calif. (Needles).*Urosigalphus truncatus* Martin, 1956. Canada Dept. Agr. Pub. 965: 104, 122. ♀.Genus *ALIOLUS* SayRemove from synonymy under *Triaspis* Haliday, p. 114, and place before *Triaspis*.

Revision: Martin, 1956. Canada Dept. Agr. Pub. 965: 14-60.

- **acutulus* Martin. N. Y. (Ithaca).
Aliolus acutulus Martin, 1956. Canada Dept. Agr. Pub. 965: 16, 19. ♀.
- **auriculatus* Martin. Colo. (Larkspur).
Aliolus auriculatus Martin, 1956. Canada Dept. Agr. Pub. 965: 16, 21.
 ♀ ♂.
- **bicornis* Martin. U. S. (State not known).
Aliolus bicornis Martin, 1956. Canada Dept. Agr. Pub. 965: 17, 39. ♀.
- **bucculentus* Martin. B. C. (Hope).
Aliolus bucculentus Martin, 1956. Canada Dept. Agr. Pub. 965: 17, 41.
 ♀.
- **calyptoides* Martin. Wis. (Boulder Junction).
Aliolus calyptoides Martin, 1956. Canada Dept. Agr. Pub. 965: 16, 31.
 ♀.
- canadensis* (Provancher). N. Y., Mass. Transf. from *Triaspis* (teste Martin, 1956. Canada Dept. Agr. Pub. 965: 17, 44).
- collaris* (Brues). N. Mex., Kans., Fla. Transf. from *Triaspis* (teste Martin 1956. Canada Dept. Agr. Pub. 965: 16, 22).
- **crabilli* Martin. N. Y., south to Ga., and west to Wis.
Aliolus crabilli Martin, 1956. Canada Dept. Agr. Pub. 965: 17, 60. ♀ ♂.
- **crassipes* Martin. Md., Pa., S. C.
Aliolus crassipes Martin, 1956. Canada Dept. Agr. Pub. 965: 16, 35.
 ♀ ♂.
- curculionis* (Fitch). All U. S. except northwestern States, Que. Hosts: *Magdalis armicollis* (Say), *Grapholitha molesta* (Busck), *Craponius inaequalis* (Say). Transf. from *Triaspis* (teste Martin, 1956. Canada Dept. Agr. Pub. 965: 16, 27).
- **denticulatus* Martin. Md., D. C., N. J., Pa., N. Y., Iowa.
Aliolus denticulatus Martin, 1956. Canada Dept. Agr. Pub. 965: 16, 33.
 ♀ ♂.
- **evanidus* Martin. Tex. (Robstown).
Aliolus evanidus Martin, 1956. Canada Dept. Agr. Pub. 965: 17, 37. ♂.
- fiskei* (Rohwer). Delete Que. from range; N. J., Md., Va. Hosts: *Cossonus* sp. in *Hicoria*, *Mordella octopunctata* F. Transf. from *Triaspis* (teste Martin, 1956. Canada Dept. Agr. Pub. 965: 17, 47).
- **inartus* Martin. Ont. (St. Davids).
Aliolus inartus Martin, 1956. Canada Dept. Agr. Pub. 965: 17, 38. ♂.
- **indeprehensus* Martin. Miss. (Lincoln Co.).
Aliolus indeprehensus Martin, 1956. Canada Dept. Agr. Pub. 965: 17, 46. ♀.
- **marginatus* Martin. Md., Va., W. Va., N. Y., Ohio.
Aliolus marginatus Martin, 1956. Canada Dept. Agr. Pub. 965: 17, 57.
 ♀ ♂.
- **mexicanus* (Cresson). N. Mex.; Mexico.
Calyptus mexicanus Cresson, 1872. Canad. Ent. 4: 229. ♂.
- **patei* Martin. N. S., Ont., N. Y., R. I., N. J., Pa., W. Va., Va., N. C., S. C., S. Dak.
Aliolus patei Martin 1956. Canada Dept. Agr. Pub. 965: 17, 55. ♀ ♂.
- rufus* (Riley), changed status. Raised to sp. rank and transf. from *Triaspis* (teste Martin, 1956. Canada Dept. Agr. Pub. 965: 16, 24).
- **stanleyi* Martin. Tex. (Fresno).
Aliolus stanleyi Martin, 1956. Canada Dept. Agr. Pub. 965: 17, 53. ♀ ♂.
- **stictopleurus* Martin. Pa., N. C., Miss., Mich. Host: *Obrium rufulum* Gahan.
Aliolus stictopleurus Martin, 1956. Canada Dept. Agr. Pub. 965: 17, 52.
 ♀ ♂.

tomoxiae (Rohwer). Pa., Md., Kans. Transf. from *Triaspis* (*teste* Martin, 1956. Canada Dept. Agr. Pub. 965: 17, 49).

**tridentatus* Martin. Ariz. (Sta. Catalina Mts.)

Aliolus tridentatus Martin, 1956. Canada Dept. Agr. Pub. 965: 16, 30. ♀.

trilobatus (Say). Transf. from *Triaspis* (*teste* Martin, 1956. Canada Dept. Agr. Pub. 965: 17, 42).

Genus *TRIASPIS* Haliday, pp. 114-115

Aliolus Say. Delete from synonymy. Treat as distinct genus in *Triaspini* before *Triaspis*.

Revision: Martin, 1956. Canada Dept. Agr. Pub. 965: 61-101.

TRIASPIS subgenus *TRIASPIS* Haliday, p. 114

Revision: Martin, 1956. Canada Dept. Agr. Pub. 965: 64-97.

**abditiva* Martin. N. Y. (Syracuse).

Triaspis (Triaspis) abditiva Martin, 1956. Canada Dept. Agr. Pub. 965: 65, 76. ♀ ♂.

**aequoris* Martin. Kans. (Riley Co.).

Triaspis (Triaspis) aequoris Martin, 1956. Canada Dept. Agr. Pub. 965: 66, 92. ♀.

**aquila* Martin. Que. (Laniel).

Triaspis (Triaspis) aquila Martin, 1956. Canada Dept. Agr. Pub. 965: 65, 85. ♂.

canadensis (Provancher). Trans. to *Aliolus*.

collaris (Brues). Trans. to *Aliolus*.

curculionis (Fitch). Transf. to *Aliolus*.

curculionis var. *rufus* (Riley). Raised to sp. rank and transf. to *Aliolus*.

fiskei Rohwer. Transf. to *Aliolus*.

**halidayi* Martin. S. Dak. (Brookings).

Triaspis (Triaspis) halidayi Martin, 1956. Canada Dept. Agr. Pub. 965: 66, 89. ♂.

**kurtogaster* Martin. Ont. south to Ga. and west to Tenn. and La. Hosts: *Conotrachelus nenuphar* (Hbst.), *Brachyrhinus ovatus* (L.), *Chalcodermus aeneus* Boh., *C. collaris* Horn, *Anthonomus grandis* Boh., *Curculio* sp.

Triaspis (Triaspis) kurtogaster Martin, 1956. Canada Dept. Agr. Pub. 965: 66, 90. ♀.

**laticarinata* Martin. B. C.

Triaspis (Triaspis) laticarinata Martin, 1956. Canada Dept. Agr. Pub. 965: 66, 94. ♂ ♀.

**magnafoveae* Martin. N. S., Ont., Alta., Mich., Ill.

Triaspis (Triaspis) magnafoveae Martin, 1956. Canada Dept. Agr. Pub. 965: 65, 70. ♀ ♂.

**matricula* Martin. S. Dak. (Brookings).

Triaspis (Triaspis) matricula Martin, 1956. Canada Dept. Agr. Pub. 965: 65, 68. ♀.

**ocellulata* Martin. N. Y., Ont.

Triaspis (Triaspis) ocellulata Martin, 1956. Canada Dept. Agr. Pub. 965: 66, 87. ♂ ♀.

**odontochila* Martin. La., Va. Host: *Podapion* sp.

Triaspis (Triaspis) odontochila Martin, 1956. Canada Dept. Agr. Pub. 965: 65, 83. ♀ ♂.

- ***rectangulata** Martin. Colo., S. Dak., Utah, Idaho.
Triaspis (Triaspis) rectangulata Martin, 1956. Canada Dept. Agr. Pub.
 965: 65, 74. ♀ ♂.
- ***stenochila** Martin. Kans. (Kiowa Co.).
Triaspis (Triaspis) stenochila Martin, 1956. Canada Dept. Agr. Pub.
 965: 65, 78. ♀.
- ***stenogaster** Martin. Colo. (Fort Collins).
Triaspis (Triaspis) stenogaster Martin, 1956. Canada Dept. Agr. Pub.
 965: 65, 72. ♀ ♂.
- ***stictostiba** Martin. "Canada." Host: *Bruchus rufimanus* Boh.
Triaspis (Triaspis) stictostiba Martin, 1956. Canada Dept. Agr. Pub.
 965: 65, 82. ♀.
- ***stilpnogaster** Martin. Idaho, Calif., Wis.
Triaspis (Triaspis) stilpnogaster Martin, 1956. Canada Dept. Agr. Pub.
 965: 65, 66. ♀.
- tomoxiae** (Rohwer). Transf. to *Aliolus*.
- trilobatus** (Say). Transf. to *Aliolus*.
- virginiensis** (Ashmead). Md., Pa.

Genus SCHIZOPRYMNUS Foerster, p. 113

Treat as subgenus of *Triaspis*, p. 114.

TRIASPIS Subgenus SCHIZOPRYMNUS Foerster

Changed status. Reduce to subg. rank under *Triaspis*, p. 114 (*teste* Martin, 1956. Canada Dept. Agr. Pub. 965: 61, 98).

Genus CREMNOPS Foerster, pp. 115-116

aionos Shenefelt. Correct spelling for *ainos*. Ariz.

comstocki (Morrison). Fla., Ont., Alta., Sask.

kelloggii (Morrison). Calif.

montrealensis (Morrison). N. S., Ont., Minn.

nigrosternum (Morrison). Mass., Sask.

szepligetii (Morrison). Mass.

virginiensis (Morrison). Que., Ont., Fla.

vulgaris (Cresson). Ariz., Ont. to B. C.

washingtonensis Shenefelt. Colo., B. C.

Genus EARINUS Wesmael, p. 116

limitaris (Say). Wash., N. S. to B. C. Hosts: *Xylomyges dolosa* Grote, *Graptolitha* sp.

zeirapherae Walley. N. S. to B. C. and Alaska. Hosts: *Acleris hudsoniana* (Wlkr.), *Archips rosaceana* (Harr.).

Genus AENIGMOSTOMUS Ashmead, p. 116

longipalpus (Cresson). Wash.

Genus AGATHIRIA Westwood, p. 116

nigricauda (Viereck). Ariz.

Genus CRASSOMICRODUS Ashmead, p. 117

nigrithorax Muesebeck. Alta.

divisus (Cresson). Ont.

Genus **AGATHIS** Latreille, pp. 117-121

abdominalis (Muesebeck). Tex.

aciculata (Ashmead). Change from *aciculatus*. Ariz.

acrobasisidis (Cushman).

Biology: Nickels, Pierce and Pinkney, 1950. U. S. Dept. Agr. Tech. Bul. 1011: 6-8.

agilis (Cresson). Que., Alta., Sask.

annulipes (Cresson). Que. Hosts: *Grapholitha interstinctana* Clem., *Archips conflictana* (Wlkr.), *Sciaphila duplex* (Wlsm.), *Anacamptis innocuella* (Zell.).

bakeri (Muesebeck). Alaska.

bicolor (Provancher). Preocc. Replaced by *binominata* Muesebeck.

binominata Muesebeck, n. name. Replaces *bicolor* (Provancher), preocc.

buttricki (Viereck). Hosts: *Phalonia rutilana* (Hbn.), *P. voxcana* Kearf., *P. straminoides* (Grote), *Acrobasis rubrifasciella* Pack.

calcarata (Cresson). Change from *calcaratus*. Mich. Hosts: *Mineola Indiginella* (Zell.), *Epismus argutanus* (Clem.).

californica (Muesebeck). Change from *californicus*.

cincta (Cresson). Change from *cinctus*. Hosts: *Gnorimoschema chenopodiella* Busck, *Coleophora atlantica* Heinr., *C. salicivorella* McD., *C. alniella* Heinr., *C. laricella* (Hbn.), *C. salmani* Heinr., *C. tiliæfoliella* Clem., *Chrysopora hermannella* (F.), *Dichomeris ligulella* Hbn., *Cnephasia longana* Haw., *Anacamptis fragariella* Busck.

conspicua (Wesmael). Change from *conspicuus*.

difficilis (Muesebeck). Tex.

discolor (Cresson). N. C.

diversa (Muesebeck). Change from *diversus*. Conn., N. Y., Va.

***festiva** Muesebeck. N. Y., N. J.; China, India. Hosts: *Grapholitha molesta* (Busck), *G. pruinivora* (Walsh).

Agathis festiva Muesebeck, 1953. Ent. Soc. Wash. Proc. 55: 149. ♀ ♂.

floridana (Muesebeck). Change from *floridanus*.

gibbosa (Say). Change from *gibbosus*. Host: *Coleophora* sp.

Agathis dispar Provancher. Change *Agathis* to *Microdus*.

Biology: Graf, 1917. U. S. Dept. Agr. Bul. 427: 42.

imitata (Cresson). Change from *imitatus*.

immaculata (Gahan). Change from *immaculatus*.

laticincta (Cresson). Change from *laticinctus*.

Biology: Dondale, 1954. Canad. Ent. 86: 40-44.—Stultz, 1954. Canad. Ent. 86: 96-98.

nigricoxa (Provancher). Change from *nigricoxus*.

nigripes Cresson. Ariz.

nigrotrochanterica (Viereck). Change from *nigrotrochantericus*. Ariz.

petiolata (Muesebeck). Change from *petiolatus*.

pini (Muesebeck).

Biology: Miller, 1953. Ohio Jour. Sci. 53: 62.

pumila (Ratzeburg). Change from *pumilus*.

reticulata (Muesebeck). Change from *reticulatus*.

rubripes Cresson. Host: *Coleophora cratipennella* (Clem.)

rufofemorata (Muesebeck). Change from *rufofemoratus*.

rugareolata (Viereck). Change from *rugareolatus*.

sancta (Say). Change from *sanctus*. Fla.

simillima (Cresson). Change from *simillimus*. Wash. Host: *Epiblema otiosana* (Clem.)

spiracularis (Muesebeck). Oreg., Ariz.

stigmatera (Cresson). Change from *stigmaterus*.

Biology: Jaynes, 1933. U. S. Dept. Agr. Tech. Bul. 363: 18-19.

terminata (Cresson). Change from *terminatus*.

texana (Cresson). Change from *texanus*. Host: *Sylepta silicalis* (Gn.).

Biology: Heedham, 1955. Ecology 36: 349-350.

usitata (Gahan). Change from *usitatus*.

Genus ELASMOSOMA Ruthe, pp. 121-122

pergandei Ashmead. B. C.

Genus MIRAX Haliday, p. 122

aspidiscae Ashmead. Que., Fla.

lithocolletidis Ashmead. Ont. Host: *Leucanthiza dircella* Braun.

Genus ADELIUS Haliday, p. 123

fasciipennis (Rohwer). Wis.

Genus APANTELES Foerster, pp. 123-135

acaudus (Provancher). Wis. Host: *Calocalpe prunivivora* Ferg.

***aciculatus** (Ashmead). Tex.; Br. West Indies, Canal Zone, Costa Rica.

Urogaster aciculatus Ashmead, 1900. Ent. Soc. London Trans., 1900, pt. 2, p. 289. ♂.

acronyctae Riley. Ont. Hosts: *Acrionicta dactylina* (Grote), *A. lepusculina* Gn.

alaskensis (Ashmead). Mich., B. C. Hosts: *Gabriola dyari* Tay., *Oporinia autumnata* (Gn.).

aletiae Riley. Cuba. Host: *Gonodonta nutrix* (Stoll).

alticola (Ashmead). N. B., Colo. Host: *Amathes collaris* (G. and R.).

anisotae Muesebeck. Ont. Host: *Anisota rubicunda* (F.).

aristoteliae Viereck. N. B., Ont. Host: *Choristoneura fumiferana* (Clem.).
Delete *Grapholitha molesta* (Busck).

atalantae (Packard). Alta., Sask. Host: *Polygonia* sp.

autographae Muesebeck. Newfoundland.

bedelliae Viereck. Ont. Host: *Lithocolletis tremuloidiella* Braun.

bushnelli Muesebeck. Iowa. Host: *Dioryctria disclusa* Heinr.

***caberatae** Muesebeck. Calif. (Carlsbad). Host: *Sabulodes caberata* (Gn.).

Apanteles caberatae Muesebeck, 1956. Pan-Pacific. Ent. 32: 26. ♀ ♂.

cacoeciae Riley. Hosts: *Sciaphila duplex* (Wlsm.), *Grapholitha molesta* (Busck).

californicus Muesebeck. Idaho, Alta., B. C., Ont., Que. Hosts: *Recurvaria gibsonella* Kearf., *Recurvaria* n. sp.

cerurae Muesebeck. Que., Ont.

cingiliae Muesebeck. N. S., Que., Ont. Hosts: *Nepytia canosaria* (Wlkr.), *Eupithecia gibsonata* Tay.

clisiocampae Ashmead.

Biology: Fiske, 1903. N. H. College Agr. Expt. Sta. Tech. Bul. 6: 214-216.

- cockerelli** Muesebeck. Oreg. Host: *Isophrictus* sp. on *Helianthus*.
- compressiventris** Muesebeck. N. W. T. (Keewatin), Que.
- conanchetorum** Viereck. N. S.
- congregatus** (Say). Hosts: *Lapara bombycoides* Wlkr., *Hemaris diffinis* (Bdv.).
- consimilis** Viereck. Man.
- crassicornis** (Provancher). Mass., Ariz.
- cyaniridis** Riley. Que.
- diacrisiae** Gahan. Que., Ont. Hosts: *Hemerocampa plagiata* (Wlkr.), *Estigmene acraea* (Drudry).
- diatraeae** Muesebeck. Mexico. Host: *Diatraea lineolata* (Wlkr.).
- dignus** Muesebeck.
Biology: Graf, 1917. U. S. Dept. Agr. Bul. 427: 43 (as *Apanteles* sp.).
- dolicocephalus** Muesebeck. Ill., Mich.
- electrae** Viereck. B. C.
- empretiae** Viereck. Ala., La.
- ensiger** (Say). Host: *Crambus mutabilis* Clem.
- epinotiae** Viereck. Hosts: *Dichomeris ligulella* Hbn., *Acrobasis caryae* Grote.
Biology: Nickels, Pierce, and Pinkney, 1950. U. S. Dept. Agr. Tech. Bul. 1011: 4-6.
- etiellae** Viereck. Mex.
- euchaetis** Ashmead. Tex.
- feltiae** Viereck. Sask. Host: *Pyrausta ainsliei* Heinr.
- fiskei** Viereck. Host: *Olene plagiata* (Wlkr.)
- fumiferanae** Viereck. Transcontinental in Canadian Zone. Hosts: *Acleris variana* (Fern.), *Choristoneura pinus* Freem.
Biology: McGugan, 1955. Can. Ent. 87: 179-187.
- glacialis** (Ashmead). B. C. Host: *Hyphantria textor* (Harr.).
- glomeratus** (Linnaeus).
Biology: Johansson, 1951. Norsk. Ent. Tidsskr. B. 7(4-5): 145-186.
- griffini** Viereck. Wash., Tex.
- halisidotae** Muesebeck. Que., Ont., Man.
- hallii** (Packard). N. W. T. (Arctic regions).
- *harrisinae** Muesebeck. Ariz., Conn. Host: *Harrisina brillians* B. and McD.
Apanteles harrisinae Muesebeck, 1953. Ent. Soc. Wash. Proc. 55: 150.
♀ ♂.
- *herbertii** Ashmead. West Indies, Fla. Host: *Nystalea nysius* Cram.
Apanteles herbertii Ashmead, 1900. Ent. Soc. London Trans., 1900, pt. 2, p. 279. ♀.
- insignis** Muesebeck. B. C. Host: *Platyptilia punctidactyla* Haw.
- laeviceps** Ashmead. Hosts: *Euxoa ochrogaster* (Gn.), *Feltia ducens* Wlkr., *Spaelotis clandestina* (Harr.), *Anacamptodes vellivolata* (Hulst), *Lacinipolia meditata* (Grote), *Eucirrhoedia pampina* (Gn.).
- laspeyresiae** Viereck. B. C. Host: *Laspeyresia piperana* (Kearf.).
- longicornis** (Provancher). N. B. Host: *Syngrapha epigaea* (Grote).
- lunatus** (Packard). Fla. Tex.
- marginiventris** (Cresson). Wis.
- medicaginis** Muesebeck. Ariz.

- militaris** (Walsh). Minn.
- memoriae** Ashmead. N. S. to Sask. Hosts: *Eupithecia filmata* Pears., *E. gibsonata* Tay., *E. palpata* Pack., *Erannis tiliaria* (Harr.), *Alsophila pometaria* (Harr.), *Operophtera brumata* (L.), *Semiothisa granitata* (Gn.), *Haploa lecontei* (Guer.-Men.).
- neomexicanus** Muesebeck. Prince Edward Island to B. C., Calif.
- nephopteris** (Packard). Ont. Host: *Plodia interpunctella* (Hbn.)
- ornigis** Weed. N. S.; Ark., Utah, Oreg. Hosts: *Gracilaria burgessiella* Zell., *Lithocolletis blancardella* (F.), *L. malimalifoliella* Braun.
- paleacritae** Riley. N. S. to B. C. Hosts: *Lambdina fiscellaria* (Gn.), *Operophtera brumata* (L.), *Erannis tiliaria* (Harr.), *Ectropis crepuscularia* (D. and S.), *Semiothisa granitata* (Gn.), *S. sexmaculata* (Pack.), *Zale* sp., *Bomolocha deceptalis* (Wlkr.), *Nepytia canosaria* (Wlkr.), *Oporinia autumnata henshawii* Swett.
- paralechia** Muesebeck. N. B., Ont. Hosts: *Argyresthia thuella* (Pack.), *A. freyella* Wlsm., *Recurvaria thujaella* Kearf.
- parastichtidis** Muesebeck. N. S. to B. C. Hosts: *Hydriomena divisaria* (Wlkr.), *H. renunciata* (Wlkr.).
- petrovae** Walley. Newfoundland, N. B. Hosts: *Choristoneura fumiferana* (Clem.), *C. pinus* Freem.
- phigaliae** Muesebeck. Ont., N. B.
- phobetri** Rohwer. Newfoundland to Alta. Hosts: *Halisidota harrisii* Walsh, *H. caryae* (Harr.), *Apantesis* sp., *Panthea acronyctoides* (Wlkr.).
- pholisora** Riley. Host: *Staphylus hayhursti* (Edw.).
- plathypenae** Muesebeck. B. C. Host: *Autographa californica* (Speyer).
- politus** Riley. Fla.
- polychrosidis** Viereck. N. B., Que. Hosts: *Choristoneura fumiferana* (Clem.), *C. pinus* Freem., *Anacamptis innocuella* (Zell.).
- pyralidis** Muesebeck. Wis.
- pyraustae** Viereck. Ont.
- pyrophilae** Muesebeck. Ont.
- rohweri** Muesebeck. N. B., Ont. Hosts: *Argyresthia* sp. on *Thuja*, *Lithocolletis tremuloidiella* Braun.
- rufocoxalis** Riley. Tex.
- sarrothripae** Weed. Ont. Hosts: *Lithocolletis tremuloidella* (Braun), *Nycteola frigidana* (Wlkr.).
- schaffneri** Muesebeck. Va. Hosts: *Prolimacodes scapha* Harr.
- schizurae** Ashmead. Host: *Heterocampa guttivitta* (Wlkr.).
- scitulus** Riley. Ont., Wis. Hosts: *Olene plagiata* (Wlkr.), *Anomogyne elimata* (Gn.)
- solitarius** (Ratzeburg), Que., P. E. I.
Biology: Parker, 1935. U. S. Dept. Agr. Tech. Bul. 477.
- terminalis** Gahan. Fla., Colo.
- thujae** Muesebeck. Ont. Host: *Argyresthia thuella* (Pack.).
- tischeriae** Viereck. Host: *Ornix* sp.
- websteri** Muesebeck. N. B., Ark. Host: *Protoaboarmia porcelaria* (Gn.).
- yakutatensis** Ashmead. Que.

Genus MICROGASTER Latreille, pp. 135-137

- bakeri** Muesebeck. Fla.

calliptera Say. Fla.

canadensis Muesebeck. Colo., N. B. to B. C. Hosts: *Ancylis comptana fragariae* (W. and R.), *Argyrotoxa albicomana* (Clem.) *Sparganothis diluticostana* (Wlsm.), *Sciaphila duplex* (Wlsm.), *Epinotia sollicitana* (Wlkr.), *Acleris variana* (Fern.), *Choristoneura fumiferana* (Clem.), *Anacamptis innocuella* (Zell.), *Archips rosana* (L.).

carinata Packard. Hungary. There is some doubt now that this species occurs in the United States. The type locality was not mentioned in the original description. The only known specimens, in addition to the types, are a good series in the U. S. National Museum reared from the type host in Hungary.

ecdylotophae Muesebeck. Hosts: *Gracilaria elongella* (L.), *Coleophora asterophagella* (McD.).

epagoges Gahan. Ont. Host: *Sparganothis tristriata* Kearf.

facetosa Weed. Ga. Hosts: *Elaphria versicolor* (Grote), *Orthosia revicta* (Morr.).

femoralis Muesebeck. Idaho, Oreg., Wash.

***mediata** Cresson. Fla.; Cuba, Mex.

Microgaster mediata Cresson, 1865. Ent. Soc. Phila. Proc. 4: 66. ♂.

melligaster Provancher. Va., Mich.

pantographae Muesebeck. Mich., Mo. Host: *Argyrotaenia velutinana* (Wlkr.).

peroneae Walley. Labrador to B. C.; Maine, Mich. Host: *Sparganothis acerivorana* Mackay.

phthorimacae Muesebeck. Host: *Amorbia essigana* Busck.

Biology: Graf, 1917. U. S. Dept. Agr. Bul. 427: 44-45 (as *Microgaster* sp.).

schizurae Muesebeck. B. C.

Genus MICROPLITIS Foerster, pp. 137-139

bradleyi Muesebeck. Utah; B. C. Host: *Feralia jocosa* (Gn.).

brassicae Muesebeck. Host: *Autographa californica* Speyer.

ceratomiae Riley. Hosts: *Protoparce sexta* (Johan.), *Sphinx kalmiae* J. E. Smith.

hyphantriae Ashmead. Hosts: *Lithophane antennata* (Wlkr.), *Amphipyra pyramidoides* Gn., *Acronicta grisea* Wlkr., *Graptolitha* sp.

kewleyi Muesebeck. Que.

mamestrae Weed. Wis., Utah.

plutellae Muesebeck. Ont.; N. Y., S. C., Utah.

4-dentatus (Provancher). Host: *Simyra henrici* (Grote).

scutellatus Muesebeck. Maine, N. Y., Mich.

stigmaticus Muesebeck. Colo.

Genus CARDIOCHILES Nees, pp. 139-141

explorator (Say). Okla., Wash., Calif.

magnus Mao. Ariz.

minutus (Cresson). Que.; Mich.

pullus Mao. Fla.

tibiator (Say). Mich.

viator (Say). Wash.

Genus PROTEROPS Wesmael, p. 141

californicus Cresson. Wyo.

Genus SIGALPHUS Latreille, p. 142

bicolor (Cresson). Que., Ont., Man. Host: *Acronieta clarescens* Gn.

Genus PHANEROTOMA Wesmael, pp. 142-143

**Phaenotoma* Ashmead, 1894. Linn. Soc. London, Jour., Zool. 25: 123. Misspelling.

fasciata Provancher. Oreg., Wash. Host: *Grapholitha interstinctana* (Clem.)

franklini Gahan. Que.; Md.

**grapholithae* Muesebeck. Japan, China; N. J., N. Y., Md., Conn., Va. Hosts: *Grapholitha molesta* (Busck), *G. prunivora* (Walsh), *Carpocapsa pomonella* (L.).

Phanerotoma grapholithae Muesebeck, 1933. Ent. Soc. Wash. Proc. 35: 50. ♀ ♂.

**longicauda* Wally. N. S., Que., Ont., Alta., Pa., Md., Fla., Mich., Ill., Iowa. Host: *Carposina* sp.

Phanerotoma longicauda Walley, 1951. Canad. Ent. 83: 306. ♀ ♂.

**thapsina* Walley. Tex.

Phanerotoma thapsina Walley, 1951. Canad. Ent. 83: 305. ♀ ♂.

tibialis (Haldeman). Que. Delete Oreg. and Wash.

Genus ASCOGASTER Wesmael, p. 143

flaviceps Ashmead. N. Y.

quadridentata Wesmael. Ont., Wash. Hosts: *Paralobesia viteana* (Clem.), *Grapholitha prunivora* (Walsh).

rufa Muesebeck and Walkley. Colo.

CHELONUS subgenus CHELONUS Panzer, pp. 143-144

**exogyrus* Viereck. Syn. of *texanus* Cresson.

sericeus (Say). N. H., Ill., Ariz.

**texanoides* Viereck. Syn. of *texanus* Cresson.

texanus Cresson. Hosts: *Peridroma margaritosa* (Haw.), *Prodenia eridania* Gn.

**Chelonus texanoides* Viereck, 1905. Kans. Acad. Sci. Trans. 19: 286. ♀. N. syn. (based on type exam. by C. F. W. Muesebeck).

**Chelonus exogyrus* Viereck, 1905. *Idem*, p. 287. ♀. N. syn. (based on type exam. by C. F. W. Muesebeck).

Biology: Pierce and Holloway, 1912. Jour. Econ. Ent. 5(6): 425-428. —Ulyett, 1949. Canad. Ent. 81: 25-44.

CHELONUS subgenus MICROCHELONUS Szépligeti, pp. 145-146

nanus Provancher. Change *Chelanus nana* in orig. cit. to *Chelonus nanus*.

phthorimaeae Gahan.

Biology: Graf, 1917. U. S. Dept. Agr. Bul. 427: 40-41 (as *Chelonus shoshoneanorum* Vier.).

***Genus CHOREBIDELLA Riegel**

Chorebidella Riegel, 1950. Ent. News 61: 125.

Type: *Chorebidella bergi* Riegel. By monotypy and orig. desig. Place as first genus under Dacnusinæ, p. 146.

**bergi* Riegel. Mich., Conn., N. Y., Alaska. Hosts: *Hydrellia cruralis* Cress. and *H. ascita* Cress.

Chorebidella bergi Riegel, 1950. Ent. News 61: 128. ♂ ♀.

Genus DACNUSA Haliday, pp. 146-147

**gracilis* (Nees). B. C., Ont.; Europe. Host: *Psila rosae* (F.).

Alysia gracilis Nees, 1834. Hym. Ichn. Aff. Monogr., v. 1, p. 257. ♀ ♂.

parva (Provancher). Change Faune Ent. Canada, Hym., p. 805 to Nat. Canad. 14: 18.

Genus ALYSIA Latreille, pp. 149-150

manducator Panzer. Change to *manducator* (Panzer).

provancheri Dalla Torre. Transf. to *Idiasta* Foerster, p. 150.

ridibunda Say. After *ridibunda* Say change 1828 to 1829.

Genus IDIASTA Foerster, p. 150

provancheri Dalla Torre. Transf. from *Alysia* Latreille, p. 149. (Based on examination of type by C. F. W. Muesebeck.)

Genus GNAPTODON Haliday, p. 153

nepticulae (Rohwer). N. Mex.

Genus OPIUS Wesmeal, pp. 153-157

aberrans Viereck. Mich.

**alloeus* Muesebeck. Maine, N. Y., Conn., Fla. Host: *Rhagoletis pomonella* (Walsh).

Opius alloeus Muesebeck, 1956. Ent. News 67: 101. ♀ ♂.

amplus Ashmead. Mich.

appalachicola (Viereck). Transf. to *Heterospilus*, p. 179.

cinctus Provancher. Que., Sask.

crassiceps Gahan. Mich.

dimidiatus (Ashmead). Tex.

downesi Gahan. Ont.

ferrugineus Gahan. S. D. Delete "west to Oreg." from range. Delete *Rhagoletis pomonella* (Walsh) from hosts.

Taxonomy: Muesebeck, 1956. Ent. News 67: 99-101.

foersteri Gahan. Wis., Tex.

fulvicollis Thomson. Que., Ont.

gahani Muesebeck. Tenn.

lectus Gahan. Que.

mandibularis Gahan. Fla., Calif., Cuba. Host: *Agromyza* sp. on *Aster*.

melleus Gahan. N. S., Minn. Host: *Rhagoletis cingulata* (Loew).

**muliebris* Muesebeck. Wash., Oreg., Calif. Hosts: *Rhagoletis cingulata* *indifferens* Curran, *R.* sp. on *Prunus emarginata*.

Opius muliebris Muesebeck, 1956. Ent. News 67: 100. ♀.

pegomyiae Gahan. Wis.

provancheri Dalla Torre. Md., Va.

rosicola Muesebeck. Oreg., Wash. Host: *Rhagoletis cingulata* *indifferens* Curran.

secundus (Viereck). Transf. to *Parahormius*, p. 176.

striativentris Gahan. S. C., Ohio.

suturalis Gahan. Hosts: *Liriomyza subpusilla* (Frost), *L. agraria* Frick.

Genus VIPIO Latreille, pp. 157-158

coloradensis Ashmead. Ariz.

erythrus Viereck. Transf. to *Iphiaulax*, p. 158.

piceipectus Viereck. Delete Idaho and Oreg. from range.

rugator (Say). Fla.

Genus IPHIAULAX Foerster, pp. 158-159

agrili (Ashmead). N. B., Ariz. Host: *Oberea praelonga* Csy.

americanus Provancher. N. Y.

epicus (Cresson). Iowa, Ill., Mich., Fla.

erythrus (Viereck), n. comb. Transf. from *Vipio*, p. 158 (based on type exam. by C. F. W. Muesebeck).

Genus ATANYCOLIMORPHA Viereck, p. 159

dissitus (Cresson). Wyo., Utah.

provancheri (Dalla Torre). La.

Genus CYANOPTERUS Haliday, p. 159

laevis (Provancher). Maine.

Genus COMPSOBRACON Ashmead, p. 160

Macroneura Szépligeti. Change to *Macronura*.

Genus COELOIDES Wesmael, pp. 160-161

brunneri Viereck. B. C., Oreg.

dendroctoni Cushman. Colo., Alaska. Host: *Dendroctonus engelmanni* Hopk., *Ips pilifrons* Swaine.

pissodis (Ashmead). Wis., Tex. Hosts: *Dendroctonus frontalis* Zimm., *Pissodes nemorensis* Germ.

scolyti Cushman. Idaho. Host: *Dendroctonus pseudotsugae* Hopk.

Genus ATANYCOLUS Foerster, pp. 161-163

charus (Riley). N. B. Host: *Agrilus anxius* Gory.

lissogastrus Shenefelt. Pa.

longicauda Shenefelt. N. J., Mich.

nigropyga Shenefelt. N. Y.

tranquebaricae Shenefelt. Bahamas (Brit. W. I.).

Genus BRACON Fabricius, pp. 163-169

Amicoplidea Ashmead, p. 174, synonymized under *Bracon* by Muesebeck, 1956. Ent. Soc. Wash. Proc. 58: 34.

americanus (Ashmead). N. S., Yukon. Delete Mexico from range.

apicatus Provancher. Mich.

atricollis Ashmead. N. J., Fla., Kan.

auripes Provancher. Syn. of *palliventris* (Provancher).

brachyurus Ashmead. Iowa.

caulicola (Gahan). Hosts: *Heliodines ionis* Clarke, *Onychobaris subtonsa* Lec.

ceramidiphagus (Muesebeck). Ont. Host: *Oberea praelonga* Csy.

curtus (Provancher). Mich.

erucarum (Cushman). Ariz., Calif.

gastroideae Ashmead. Pa., Kan., Tex.

- gelechia** Ashmead. N. S. to B. C.; Bermuda, Mexico, India. Hosts: *Pectinophora gossypiella* (Saund.), *Gelechia hibiscella* Busck, *Exoteleia dodecella* (L.), *Spilonota ocellana* (D. and S.), *Rhyacionia buoliana* (Schiff.), *Heliodines nyctaginella* Gibson.
- geraei** (Muesebeck). Kans.
- hebetor** Say. Host: *Gnorimoschema operculella* (Zell.).
 Physiology: Beard, 1952. Conn. Agr. Exp. Sta. Bul. 562.
 Biology: Graf, 1917. U. S. Dept. Agr. Bul. 427: 39-40 (as *Habrobracon johannseni* Vier.).
 Histology and Cytology: Grosch, 1952. Jour. Morph. 91: 221-236 (as *Habrobracon juglandis* Ashm.).
- hyslopi** (Viereck). Utah. Host: *Cnephasia longana* (Haw.).
- juncicola** Ashmead. N. S. Host: *Coleophora viburniella* Clem.
- *lissogaster** Muesebeck. Mont. Host: *Cephus cinctus* Nort.
Bracon lissogaster Muesebeck, 1953. Ent. Soc. Wash. Proc. 55: 150. ♀ ♂.
- mellitor** Say. Hosts: *Grapholitha molesta* (Busck), *Chalcodermus aeneus* Boh., *Laspeyresia caryana* (Fitch).
- meromyzae** Gahan. Mich.
- montowesi** (Viereck). Ont.
- nevadensis** Ashmead. Wash.
- nuperus** Cresson. Ont. Hosts: *Terellia florescentiae* (L.), *Herina frondescens* (L.).
- oenotherae** (Muesebeck). Ont., Tex.
- palliventris** (Provancher). Ont., N. Y., Mass., Ohio. Host: *Epiblema strenuana* (Wlkr.).
Phylax palliventris Provancher, 1880. Transf. with genus *Amicoplidea* Ashmead, from p. 174 (teste Muesebeck, 1956. Ent. Soc. Wash. Proc. 58: 34).
Bracon auripes Provancher (syn. by Muesebeck, op. cit. supra).
- pini** (Muesebeck). Ont., B. C. Hosts: *Pissodes sitchensis* Hopk., *Podapion gallicola* Riley.
- platynotae** (Cushman). Host: *Lineodes integra* (Zell.).
- podunkorum** (Viereck). Mich.
- poliventris** (Cushman). N. S. to B. C. Host: *Choristoneura pinus* Freem.
- punctatus** (Muesebeck). Ala., Ill., Tex., Wis. Host: *Anthonomus nubilus* Lec.
- pygmaeus** Provancher. B. C.
- pyralidiphagus** (Muesebeck). Mich., Tex., Ariz.
- quinnipiacorum** (Viereck). Mich., Tex., Ariz.
- rhyacioniae** (Muesebeck). Que. to Sask. Hosts: *Dioryctria auranticella* (Grote), *Eucosma tucullionana* Heinr.
- rudbeckiae** (Muesebeck). Kan., Ariz. Host: *Anthonomus squamosus* Lec.
- tenuiceps** (Muesebeck). Kans., Tex.
- thurberiphagae** (Muesebeck). West Indies. Hosts: *Anthonomus grandis thurberiae* Pierce, *Ancylostomia stercorea* (Zell.).
- variabilis** (Provancher). Host: *Acrobasis caryae* Grote.
 Biology: Nickels, Pierce and Pinkney, 1950. U. S. Dept. Agr. Tech. Bul. 1011: 9-12.
- xanthonotus** Ashmead. Host: *Hemerocampa pseudotsugata* (McD.).

Genus SPATHIUS Nees, pp. 169-170

canadensis Ashmead. W. Va. Host: ? *Magdalis* sp. in elm.

Genus ROGAS Nees, pp. 170-172

aciculatus (Cresson). Host: *Agrotis jaculifera* Gn.

**borealis* Thomson. Europe, Greenland.

Rogas (Aleiodes) borealis Thomson, 1891. Opuscula entomologica, Fasc. 16: 1679. ♀.

burrus (Cresson). S. Dak.

graphicus Cresson. Iowa, Colo.

mandibularis Cresson. Miss., Ohio.

molestus Cresson. Host: *Trichoplusia ni* (Hbn.).

parasiticus (Norton). Host: *Syngrapha epigaea* (Grote).

terminalis (Cresson). Host: *Amathes smithi* (G. and R.).

Genus PELECYSTOMA Wesmael, p. 172

discoideum (Cresson). Fla. Mich.

harrisinae (Ashmead). Mexico, Cuba.

Genus PETALODES Wesmael, p. 172

palmaris Walley. Ont., Utah. Host: *Nycteola cinereana* Neum. and Dyar.

Genus BUCCULATRIPLEX Viereck, p. 173

bucculatricis (Ashmead). Mich., Wis., Oreg. Host: *Heterarthrus nemoratus* (Fall.).

Genus ONCOPHANES Foerster, p. 173

americanus (Weed). Hosts: *Choristoneura fumiferana* (Clem.), *Argyrotaenia velutinana* (Wlkr.), *Eulia ministrana* (L.).

betulae Muesebeck. Mich. Host: *Anthophila pariana* (Clem.).

nigriventris Muesebeck. Wis.

Genus CLINOCENTRUS Haliday, p. 174

mellipes (Ashmead). N. Y., Va., D.C.

tarsalis Ashmead. Mo.

Genus XENOSTERNUM Muesebeck, p. 174

ornigis Muesebeck. Host: *Fascista cercerisella* (Chamb.).

Genus COLASTES Haliday, p. 174

propinquus (Walley). Que. (Pt. Harrison).

Genus RHYSIPOLIS Foerster, p. 174

pallipes (Provancher). N. H., Mich.

***Genus XENARCHA Foerster**

(= *Zamegaspilus* Ashmead, p. 175)

Xenarcha Foerster, 1862. Naturh. Ver. Rheinlande Verh. 19: 235.

Type: *Colastes lustrator* Haliday. By monotypy and orig. desig.

Replaces *Zamegaspilus* Ashmead, p. 175, which falls as a synonym of *Xenarcha* (*teste* Muesebeck, 1956. Ent. Soc. Wash. Proc. 58: 34).

hopkinsi (Ashmead). Md., N. C., Tenn., Iowa. Transf. from *Zamegaspilus* Ashmead through synonymy of that genus with *Xenarcha* Foerster.

Genus HORMIUS Nees, pp. 175-176

dispar (Brues). N. C., Mich.

Genus PARAHORMIUS Nixon, p. 176

secundus (Viereck), n. comb. Transf. from *Opius*, p. 157 (based on type exam. by C. F. W. Muesebeck).

Genus DORYCTES Haliday, pp. 176-177

atripes (Provancher). Va., Mich.

carinatus (Ashmead). Va., D. C.

fartus (Provancher). N. H.

pacificus (Provancher). Calif.

Genus GLYPTODORYCTES Ashmead, p. 178

caryae (Ashmead).

Hormiopterus claripennis Brues. N. syn. Transf. from *Rhaconotus*, p. 181 (based on type exam. by C. F. W. Muesebeck).

Genus HETEROSPILUS Haliday, pp. 178-180

appalachicola (Viereck), n. comb. Transf. from *Opius*, p. 154 (based on type exam. by C. F. W. Muesebeck).

bruchii Viereck. Va.

mordellistenae Viereck. Ont.

Genus DENDROSOTER Wesmael, p. 181

sulcatus Muesebeck. Fla., Wis.

Genus RHACONOTUS Ruthe, p. 181

claripennis (Brues). Transf. to *Glyptodoryctes*, p. 178, where it is a n. syn. of *caryae* (Ashmead).

graciliformus (Viereck). Ohio

Genus HISTEROMERUS Wesmael, p. 181

canadensis Ashmead. N. H., N. Y., W. Va. Host: *Anobium punctatum* DeG.

Genus ODONTOBRACON Cameron, pp. 181-182

elaphidiovorus Rohwer. Ohio, Wis.

**grandis* Ashmed. Ariz., Baja Calif.

Odontobracon grandis Ashmead, 1894. Calif. Acad. Sci. Proc. 4: 122. ♀.

Genus ACRISIS Foerster, p. 182

americana (Ashmead). Pa.

Genus COSMOPHORUS Ratzeburg, p. 183

Cosmophorinus Viereck, 1925. N. syn. (on the basis of recent comparison with authentic material of *Cosmophorus* from Europe, by C. F. W. Muesebeck).

Delete "No North American species," and transfer here all species listed under *Cosmophorinus* Viereck, pp. 183-184.

Family ICHNEUMONIDAE

Taxonomy: Smith and Shenefelt, 1955. Wis. Acad. Sci. Arts, Letters, Trans. 44: 165-219, 10 pls. (key to subfamilies and tribes).

Tribe EPHIALTINI

(= *Pimplini* of Catalog)

Genus SCAMBUS Hartig, pp. 185-187

bicoloripes (Ashmead). Transcont. in Canada. Host: *Laspeyresia nigricana* (Steph.)

**brevicornis* (Gravenhorst). Greenland.

Pimpla brevicornis Gravenhorst, 1829. Ichn. Europaea, v. 3, p. 211.

♂ ♀.

hispa (Harris). Host: *Paraclemensia acerifoliella* (Fitch).

Genus CALLIEPHIALTES Ashmead, pp. 187-188

comstockii (Cresson). Fla. Host: *Dioryctria disclusa* Heinr.

Biology: Miller, 1953. Ohio Jour. Sci. 53 (1): 60.

grapholithae (Cresson). Hosts: *Acrobasis caryae* (Grote), *Agathis acrobasisidis* (Cush).

Biology: Nickels, Pierce, and Pinkney, 1950. U. S. Dept. Agr. Tech. Bul. No. 1011, pp. 12-14.

Genus EPHIALTES Gravenhorst

(= *Pimpla* Fabricius of Catalog, pp. 188-189)

Replace first three lines of generic synonymy with:

Ichneumon of authors.

Pimpla of authors.

Ephialtes Gravenhorst, 1829. Ichn. Europaea, v. 1, Conspectus, p. 64; v. 3, p. [224].

Type: *Ichneumon manifestator* Linnaeus. Desig. by Int. Comn. Zool. Nomencl., Op. 159, 1945.

Delete parentheses and "n. comb." in each of following Catalog entries so they appear as below:

brevis Morley.

cephalotes Holmgren.

dolichosoma Viereck.

gigas Walsh.

imperator Kriechbaumer.

macer Cresson.

perlongus Cresson.

pusio Walsh.

pygmaeus Walsh.

tenuiventris Holmgren.

Genus ISEROPUS Foerster, pp. 189-190

californiensis Cushman. Wash. Host: *Malacosoma pluviale* (Dyar).

Genus PERITHOUS Holmgren, p. 191

divinator (Rossi). Tenn.

Tribe POLYSPHINCTINI

Genus COLPOMERIA Holmgren, p. 192

kincaidii (Ashmead).

**Polysphincta albocoxalis* Ashmead MS, in Slosson, 1902. Ent. News 13: 320. Validated in syn. by Cushman, 1922. U. S. Natl. Mus. Proc. 61 (art. 8): 10.

Genus POLYSPHINCTA Gravenhorst, p. 193

**Ephialtomorpha* Ashmead MS, in Slosson, 1906. Ent. News 17:324. Nom. Nud.

limata Cresson.

**Ephialtomorpha slossonae* Ashmead MS, in Slosson, 1906. Ent. News 17: 324. Validated in syn. by Cushman, 1922. U. S. Natl. Mus. Proc. 61 (art. 8): 12, 25.

Tribe PIMPLINI
(= *Ephialtini* of Catalog)

Genus PIMPLA Fabricius
(= *Coccygomimus* Saussure of Catalog, pp. 194-196)

Replace first two lines of synonymy with:

Ephialtes of authors.

Pimpla Fabricius [1804-1805]. Systema Piezatorium, p. 112.

Type: *Ichneumon instigator* Fabricius. Desig. by Int. Comn. Zool. Nomencl., Op. 159, 1945.

aequalis (Provancher). Delete parentheses.

**aethiops* Curtis. Greenland.

Pimpla aethiops Curtis, 1828. British. Ent., v. 5, folio 214. ♀ ♂.

aquilonia Cresson. Change from *aquilonius* (Cresson).

ellopieae (Harrington). Delete parentheses.

inflata Townes. Change from *inflatus* (Townes).

**marginella* Brullé. Cuba; Fla. (Miami).

Pimpla marginella Brullé, 1846. Hist. Nat. Ins., Hym., v. 4, p. 107. ♀.

maura Cresson. Change from *maurus* (Cresson).

nuda Townes. Change from *nudus* (Townes).

pedalis (Cresson). Delete parentheses. Host: *Malacosoma pluviale* (Dyar).

puncipes (Cresson). Delete parentheses.

sanguinipes (Cresson). Delete parentheses. Host: *Malacosoma pluviale* (Dyar).

silvicola (Walley). Delete parentheses.

sodalis (Ruthe). Delete parentheses.

tenuicornis (Cresson). Delete parentheses.

**turionellae* (Linnaeus). Introduced from Europe; recovered in Canada. Host: *Rhyacionia buoliana* (Schiff.)

Ichneumon Turionellae Linnaeus, 1758. Syst. Nat., ed. 10, p. 564, ♀ ♂.

Genus APECHTHIS Foerster
(= *Ephialtes* Schrank of Catalog, p. 196)

Delete first two lines of generic synonymy. *Ephialtes* Schrank was suppressed by Int. Comn. Zool. Nomencl., Op. 159, 1945.

pacificus (Cushman). Delete parentheses.

Genus ITOPLECTIS Foerster, pp. 196-198

conquisitor (Say). Hosts: *Choristoneura pinus* Free., *Hyponomeuta multipunctella* Clem., *Rachiplusia* ou Gn.

**Pimpla pictipes* Walsh, 1873. Acad. Sci. St. Louis 3: 135. ♀. Preocc.

**Pimpla walshii* Dalla Torre, 1901. Cat. Hym. 3 (1): 454. N. name for *P. pictipes* Walsh.

**maculator* (Fabricius). Oreg. (Marion Co.) (Introduced). Host: *Cnephasia* sp.

4-cingulatus (Provancher). Host: *Malacosoma pluviale* (Dyar).

viduata (Gravenhorst). Host: *Malacosoma pluviale* (Dyar).

Tribe NEOXORIDINI
(= *Poemeniini* of Catalog)

Used by Clément, 1938, for this group.

Genus POEMENIA Holmgren, p. 199**vancouveriensis** (Provancher).**Euxorides vancouveriensis** Provancher, 1883. Change to **Euxorides vancouveriensis** Provancher, 1888.**Tribe RHYSSINI****Genus RHYSSA Gravenhorst, p. 200****alaskensis** Ashmead. Wyo.**Tribe THERONIINI****Genus THERONIA Holmgren, pp. 202-203****septemtrionalis** (Krieger).**Neotheronia winnemanae** Viereck. Misspelled **winnamanae** in Catalog.**Tribe BRACHYCYRTINI**Transf. with component genus and species to Cryptinae (= *Gelinae* of Catalog), p. 231, as first tribe in subfamily.**Tribe LABENINI****Genus LABENA Cresson, pp. 203-204****tinctipennis** Rohwer. Host: *Dicerca horni* Crotch.**Tribe XORIDINI****Genus XORIDES Latreille, pp. 204-206****calidus** (Provancher). Misspelled **callidus** in Catalog.**californicus** (Cresson). Host: *Buprestis viridisuturalis* N. & W.**insularis** (Cresson). Alaska.**Genus ODONTOCOLON Cushman, pp. 206-207****atripes** (Rohwer). Wis.**strangaliae** (Rohwer). Wis.**Tribe ACAENITINI****Genus COLEOCENTRUS Gravenhorst, pp. 207-208****rufus** Provancher. Wis., Iowa.**Genus AROTES Gravenhorst, p. 208****occipitalis** Cresson. Tenn.**Tribe LYCORININI**

Transf. from p. 309, with its component genus and species.

Subfamily COLLYRIINAE

Transf. from p. 341.

Genus COLLYRIA Schjødt

Transf. from p. 341.

calcitrator (Gravenhorst). N. Dak. (Minot), N. J.

Subfamily TRYPHONINAE
Subfamily ADELOGNATHINAE
(= *Adelognathini* of Catalog)

Changed status. *Teste* Dr. J. R. T. Short, whose study of larvae of Ichneumonidae is awaiting publication. Place group after Tryphoninae, on p. 231.

*Tribe IDIOGRAMMATINI

Place in Tryphoninae before Stilbopini, p. 209, with its component genus and species.

Genus IDIOGRAMMA Foerster

Taxonomy: Perkins, 1940. Entomologist 73: 55.—Cushman, 1942. Ent. Soc. Wash. Proc. 44: 54.

Transf. from Grypocentrini, p. 218.

comstockii Ashmead. Md.

**contortae* Townes and Townes. Utah, Ariz., Calif.

Idiogramma contortae Townes and Townes, 1951. Ent. Soc. Wash. Proc. 53: 309, 310. ♀ ♂.

**fraternus* Townes and Townes. Utah, Ariz.

Idiogramma fraternus Townes and Townes, 1951. Ent. Soc. Wash. Proc. 53: 309, 312. ♀ ♂.

Tribe PHYTODIETINI

NETELIA subgenus NETELIA Gray, pp. 213-216

geminata (Say). Change from *geminatus*.

trituberculata (Cushman). Change from *trituberculatus*.

Tribe THYMARIDINI
(= *Eclytini* of Catalog)

Genus NELIOPISTHUS Thomson, pp. 216-217

semirufus (Provancher).

**Polysphincta erythropleura* Ashmead MS, in Slosson, 1896. Ent. News 7: 264; 1902, 13: 321. Validated in syn. by Cushman, 1922, U. S. Natl. Mus. Proc. 61 (art 8): 19.

Tribe GRYPOCENTRINI

Genus GRYPOCENTRUS Ruthe, p. 218

Taxonomy: Townes and Townes, 1951. Ent. Soc. Wash. Proc. 53: [301]-307.

**barbatus* Townes and Townes. Calif., Alta.

Grypocentrus barbatus Townes and Townes, 1951. Ent. Soc. Wash. Proc. 53: 303, 304. ♀ ♂.

**crassidens* Townes and Townes. Colo., Idaho.

Grypocentrus crassidens Townes and Townes, 1951. Ent. Soc. Wash. Proc. 53: 303. ♀ ♂.

**spatulatus* Townes and Townes. Calif.

Grypocentrus spatulatus Townes and Townes, 1951. Ent. Soc. Wash. Proc. 53: 304, 305. ♂ ♀.

**truncatus* Townes and Townes. N. Y.

Grypocentrus truncatus Townes and Townes, 1951. Ent. Soc. Wash. Proc. 53: 304, 305. ♀ ♂.

***Genus EAROBIA Townes and Townes**

Earobia Townes and Townes, 1951. Ent. Soc. Wash. Proc. 53: 303, 307.

Type: *Earobia minor* Townes and Townes. By monotypy and orig. desig.

Place in Grypocentrini after *Grypocentrus* Ruthe, p. 218.

**minor* Townes and Townes. N. Y. (Ithaca).

Earobia minor Townes and Townes, 1951. Ent. Soc. Wash. Proc. 53: 302, 307. ♀ ♂.

Genus IDIOGRAMMA Foerster, p. 218

Transf. genus with its component species to Idiogrammatini (q.v.).

Tribe TRYPHONINI**ERROMENUS subgenus ERROMENUS Holmgren, pp. 222-224**

marginatus Provancher.

Erromenus marginatus Provancher. Change to *Erronemus* (!) *marginatus*.

ERROMENUS, subgenus ADERAEON Townes and Townes, p. 224

bedardi Provancher.

Erromenus Bedardi Provancher. Change to *Erronemus* (!) *Bedardi*.

Genus MONOBLASTUS Hartig, pp. 224-225

feria feria (Davis). After *basilicus* Davis, change 1895 to 1897.

TRYPHON subgenus SYMBOËTHUS Foerster, pp. 226-227

humeralis Townes and Townes, 1950. Preocc. in *Tryphon* by Gravenhorst, 1829. Replaced by *townesi* n. name, q. v.

**townesi* Walkley, n. name.

Tryphon (*Symboëthus*) *humeralis* Townes and Townes, 1950. Preocc.

Tribe EXENTERINI

(= *Cteniscini* of Catalog)

Genus CTENISCUS Haliday, p. 227

Change citation to read as follows:

Cteniscus Haliday, 1832. In Curtis, British Ent., v. 9, folio 399. Proposed as subgenus of *Tryphon* Fallén.

Type: *T[ryphon (Cteniscus)] aurifluus* Haliday. Orig. desig.

***Genus ORTHOMISCUS Mason**

Orthomiscus Mason, 1955. Canad. Jour. Zool. 33: 21, 63.

Type: *Orthomiscus platyura* Mason. Orig. desig.

Place in Exenterini after genus *Cteniscus* Haliday, p. 228.

**leptura* Mason. Ont. and Que. to N. H. and Vt., also Calif.

Orthomiscus leptura Mason, 1955. Canad. Jour. Zool. 33: 64. ♀ ♂.

**platyura* Mason. Que. to Md. and Mich., also Ala.

Orthomiscus platyura Mason, 1955. Canad. Jour. Zool. 33: 64, 66. ♀ ♂.

Genus ACROTOMUS Holmgren, p. 228

Taxonomy: Mason, 1956. Canad. Jour. Zool. 34: 120.

ornatus (Walsh). Remove *Tryphon rufigaster* Provancher from syn. and transf. to *Ipoctoninus* Hincks, p. 338.

Genus DIABORUS Foerster, p. 228

Delete from Catalog; No. Amer. species belong in *Eudiaborus* Kerrich, 1952, q.v. (*teste* Mason, 1955. Canad. Jour. Zool. 33: 21).

*Genus **EUDIABORUS** Kerrich

Diaborus of authors, not of genotype.

Eudiaborus Kerrich, 1952. Brit. Mus. (Nat. Hist.) Ent. Bul. 2: 315, 415.

Type: *Diaborus pallitarsis* Thomson. Orig. desig.

Taxonomy: Mason, 1955. Canad. Jour. Zool. 33: 18-73, figs.

Place in tribe Exenterini after genus *Acrotomus* Holmgren, p. 228.

**devius* Mason. Alaska, Man., Colo.; Sweden, Russia.

Eudiaborus devius Mason, 1955. Canad. Jour. Zool. 33: 24, 34. ♀.

dorsalis (Cresson). Transf. from *Diaborus* Foerster, p. 228, with its synonym, *mediatus* (teste Mason, 1955, Canad. Jour. Zool. 33: 24).

**eximius* Mason. N. Y. (Farmingdale).

Eudiaborus eximius Mason, 1955. Canad. Jour. Zool. 33: 24, 33. ♀.

**flavicircus* Mason. Ohio, Ind., Ont., S. C. Host: *Pristiphora* sp. on red oak.

Eudiaborus flavicircus Mason, 1955. Canad. Jour. Zool. 33: 24, 25, 27. ♀ ♂.

glutiniatus (Roman). Europe; Siberia; Alaska, Yukon, B. C., Maine. Transf. from *Diaborus* Foerster (teste Mason, 1955, Canad. Jour. Zool. 33: 24).

**leptonyx* Mason. N. W. T., Alaska, Yukon, Alta., Man., Newfoundland., Wash., Colo., Calif., Ariz.

Eudiaborus leptonyx Mason, 1955. Canad. Jour. Zool. 33: 24, 25, 37. ♀ ♂.

**luminosus* Mason. N. Y. (Ithaca).

Eudiaborus luminosus Mason, 1955. Canad. Jour. Zool. 33: 24, 40. ♀.

maculiventris maculiventris (Ashmead), change status. B. C. to Newfoundland, Maine to Mass., also Colo. Transf. from *Diaborus* Foerster with *D. ignipes* Davis as synonym. (teste Mason, 1955, Canad. Jour. Zool. 33: 52).

maculiventris sexmaculatus (Ashmead), changed status. Alaska, N. W. T., Man. Transf. from *Diaborus* Foerster. (teste Mason, 1955, Canad. Jour. Zool. 33: 54). Syn. of *maculiventris* in Catalog.

nigrocephalus (Davis). Transf. from *Diaborus* Foerster (teste Mason, 1955, Canad. Jour. Zool. 33: 24).

**promediatus arizonicus* Mason. Ariz., N. Mex.

Eudiaborus promediatus arizonicus Mason, 1955. Canad. Jour. Zool. 33: 60. ♀.

**promediatus cressoni* Mason. Ont. to Va., west to Mich. Host: *Nematus odoratus* (Marl.).

Eudiaborus promediatus cressoni Mason, 1955. Canad. Jour. Zool. 33: 59. ♀ ♂.

**promediatus promediatus* Mason. Transcont. in Huds., Canad. and Transit. Zones. Hosts: *Nematus curranii* Ross, *Hemichroa crocea* (Fourc.).

Eudiaborus promediatus promediatus Mason, 1955. Canad. Jour. Zool. 33: 56. ♀ ♂.

**pulchellus* Mason. Ont., Que., Oreg.

Eudiaborus pulchellus Mason, 1955. Canad. Jour. Zool. 33: 24, 25, 50. ♀ ♂.

**pyelechus* Mason. Md., Pa., N. J., Mass., Mich.

Eudiaborus pyelechus Mason, 1955. Canad. Jour. Zool. 33: 24, 25. ♀ ♂.

**scaphuloides* Mason. N. H., Ont., Que., Maine, R. I., Md., Mich., Idaho.

Eudiaborus scaphuloides Mason, 1955. Canad. Jour. Zool. 33: 24, 25, 40. ♀ ♂.

similis citrifrons (Ashmead), changed status. Alaska, Yukon, B. C., Wash. Transf. from *Diaborus* Foerster (teste Mason, 1955, Canad. Jour. Zool. 33: 48). Syn. of *similis* in Catalog.

- ***similis hilairetinctus** Mason. Sask., Alta., N. W. T., Ont., Que., N. Dak., N. H., Maine.
Eudiaborus similis hilairetinctus Mason, 1955. Canad. Jour. Zool. 33: 45.
 ♀ ♂.
- similis nebraskensis** (Davis), changed status. Nebr. Transf. from *Diaborus* Foerster (*teste* Mason, 1955, Canad. Jour. Zool. 33: 49). Syn. of *similis* in Catalog.
- similis similis** (Davis), changed status. B. C., Alta. south to Colo. and Calif. Transf. from *Diaborus* Foerster (*teste* Mason, 1955, Canad. Jour. Zool. 33: 43).
- vitticollis** (Cresson). N. B., N. H., Conn. Host: *Pristiphora bivittata* (Nort.). Transf. from *Diaborus* Foerster (*teste* Mason, 1955, Canad. Jour. Zool. 33: 24).

Genus EXENTERUS Hartig, pp. 228-230

- canadensis** Provancher. Host: *Neodiprion taedae linearis* Ross.

Genus SMICROPLECTRUS Thomson, p. 230

- Taxonomy: Mason, 1956. Canad. Jour. Zool. 34: 124-151 (key).
- albilineatus** (Walsh). A subsp. of *jucundus* Holmgren.
- annulipes** (Cresson). Host: *Croesus latitarsus* Nort.
- apicatus** (Provancher). Maine.
- californicus** (Cresson). Canad. Zone.
- ***eburneus** Mason. Ont., Tex.
Smicroplectrus eburneus Mason, 1956. Canad. Jour. Zool. 34: 126, 141. ♀.
- ***etrocaulus etrocaulus** Mason. Alta., B. C., Oreg., Colo.
Smicroplectrus etrocaulus etrocaulus Mason, 1956. Canad. Jour. Zool. 34: 126, 148, 149. ♀ ♂.
- ***etrocaulus eurus** Mason. N. B., Que., Mass., Mich., Minn.
Smicroplectrus etrocaulus eurus Mason, 1956. Canad. Jour. Zool. 34: 150. ♀.
- jucundus albilineatus** (Walsh), changed status.
Smicroplectrus albilineatus (Walsh). Reduced to subsp. rank (*teste* Mason 1956. Canad. Jour. Zool. 34: 150).
- ***takomae** Mason. Wash., N. W. T., Alaska.
Smicroplectrus takomae Mason, 1956. Canad. Jour. Zool. 34: 127, 131.
 ♀ ♂.
- velox** Walley. Host: *Pristiphora erichsonii* (Htg.)
- ***walleyi** Mason. Ont., Que., N. Y., Pa., Ohio, Nebr., Md., Va., Ky.
Smicroplectrus walleyi Mason, 1956. Canad. Jour. Zool. 34: 126, 142.
 ♀ ♂.

Subfamily CRYPTINAE

(= *Gelinae* of Catalog)

Tribe BRACHYCYRTINI

Taxonomy: Walkley, 1956. U. S. Natl. Mus. Proc. 106: 315-329, figs. Transf. from p. 203.

Genus BRACHYCYRTUS Kriechbaumer

- Brachyicyrtomorpha** Kreibohm de la Vega, 1940. Change v. 3 to 30. *Nom. nud.* (See Art. 25, as amended, of International Rules). Delete type designation.

**Brachycyrtomorpha* Blanchard, 1942. Soc. Cient. Argentina An. 134: 105.

Type: *Brachycyrtomorpha crossi* Blanchard. By monotypy and orig. desig.

chrysopae Walley. Syn. of *ornatus* Kriechbaumer.

**ornatus* Kriechbaumer. Europe; B. C., Ariz., Ohio, Md. Host: Chrysopidae.

Brachycyrtus ornatus Kriechbaumer, 1880. Zool. Mineral Ver. Regensburg Corres. 34: 163. ♀.

Brachycyrtus chrysopae Walley, 1940. Canad. Ent. 72: 86. ♀.

pretiosus Cushman. Fla. (Hillsboro Co., Tampa, Haines City). Host: "Trashbug pupae" (chrysopid pupae).

Tribe HEMITELINI

(= *Gelini* of Catalog)

Genus AMYDRAULAX Cushman, pp. 232-233

**brevicinctus* (Provancher).

Cryptus brevicornis Provancher, 1886. Preocc.

Cryptus brevicinctus Provancher, 1886. Addit. Corr. Faune Ent. Canada, Hym., p. 452 (*Lapsus* in Index for *brevicornis*).

Amydraulax echthroides Townes, 1944. N. name for *brevicornis*.

echthroides Townes. Syn. of *brevicinctus* Provancher, *q.v.*

Genus MASTRUS Foerster, pp. 233-234

smithii Packard. After *Echthrus rubripes* Provancher (misspelled *rubipes* in Catalog), change p. 15 to p. 16.

Genus ETHELURGUS Foerster, p. 235

belfragei (Ashmead). Misspelled *belfragi* in Catalog; change p. 899 to 399.

Genus STIBOSCOPUS Foerster, p. 235

brooksi Brooks. Not congeneric with *S. thoracicus* Ashmead, genotype of *Stiboscopus* Foerster. Place at end of Cryptinae, p. 276 of catalog under new heading: Unplaced Species of Hemitelini.

Genus IDEMUM Foerster, p. 236

crassiformis (Viereck). Add page 339 to orig. cit.

Genus HAPLASPIS Townes, p. 238

mandibularis (Provancher). Hosts: *Apanteles congregatus* (Say), *A. scitulus* Riley, *A. militaris* (Walsh).

Genus ANUROTROPUS Cushman, p. 238

Misspelled *Anuroptropus* in Catalog.

Genus GELIS Thunberg, pp. 238-243

davidsonii (Ashmead).

Hemiteles (Ilapinastes) davidsonii Ashmead, in Davidson, 1896. Add p. 319.

Genus HEMITELES Gravenhorst, p. 244

mellicornis Ashmead. Md. Host: *Micromus posticus* (Wlkr.).

ENDASYS subgenus ENDASYS Foerster, pp. 245-246

mucronatus (Provancher).

**Melophron abdominalis* Ashmead MS, in Slosson, 1906. Ent. News 17: 324. Validated in syn. by Cushman, 1922, U. S. Natl. Mus. Proc. 61 (art. 8): 18.

subclavatus (Say). Host: *Neodiprion taedae linearis* Ross.

***Medophron** (!) **monticola** Ashmead MS, in Slosson, 1900. Ent. News 11: 319. Validated in syn. by Cushman, 1922, U. S. Natl. Mus. Proc. 61 (art. 8): 18.

***Platylabus ruficornis** Provancher, 1886. Addit. Corr. Faune Ent. Canada Hym., pp. 36, 38. ♂ ♀.

Genus PHYGADEUON Gravenhorst, pp. 247-250

aciculatus Provancher. Change Nat. Canad. 12 to Nat. Canad. 13.

cincticornis (Provancher). Preocc. in **Phygadeuon** by Cresson, 1864.
Replaced by **provancheri**, *q. v.*

exiguus (Cresson). Preocc. in **Phygadeuon** by Gravenhorst, 1829. Replaced by **pisinnus** n. name, *q. v.*

niger (Ashmead). Preocc. in **Phygadeuon** by Provancher, 1874 and 1876.
Replaced by former synonym, **quadriceps** Ashmead, *q. v.*

***pisinnus** Walkley, n. name.

Ichneumon exiguus Cresson, 1864. Preocc.

***provancheri** Walkley, n. name.

Platylabus cincticornis Provancher. Preocc.

quadriceps (Ashmead). Valid name.

Bachia nigra Ashmead, 1899 (**niger** in Catalog). Preocc.

Genus ATRACTODES Gravenhorst, pp. 251-253

ashmeadi Cushman.

***Asyncrita compressa** Ashmead MS, in Slosson, 1897. Ent. News 8: 237.
Validated in syn. by Cushman, 1922, U. S. Natl. Mus. Proc. 61 (art. 8): 6.

***ebeninus** Walkley, n. name.

Exolytus niger Ashmead, 1899. Preocc.

niger (Ashmead). Preocc. in **Atractodes** by Brullé, 1846. Replaced by **ebeninus**, n. name, *q. v.*

Tribe APTESINI

Genus CUBOCEPHALUS Ratzeburg, pp. 253-255

Microcryptus Thompson. Change author to Thomson.

Cratocryptus Thompson. Change author to Thomson.

Stenocryptus Thompson. Change author to Thomson.

***armillatus** Walkley, n. name.

Cryptus collaris Provancher, 1886. Preocc.

collaris (Provancher). Preocc. in **Cryptus** by Rudow, 1883. Replaced by **armillatus** n. name, *q. v.*

erythropus velox (Cresson).

***Isotina tibialis** Ashmead MS, in Slosson, 1897. Ent. News 8: 237.
Validated in syn. by Cushman, 1922. U. S. Natl. Mus. Proc. 61 (art. 8): 9.

schmuckii (Dalla Torre).

Cryptus longicaudus Provancher, 1886. Misspelled **longicaudis** in Catalog.

Genus MEGAPLECTES Foerster, pp. 255-256

Iocryptus Thompson. Change author to Thomson.

Genus OPIDNUS Foerster, p. 256

trifasciatus (Ashmead). Change from **trifasciata**.

Tribe SPHECOPHAGINI

Genus SPHECOPHAGA Westwood, p. 258

Cacotropa Foerster. After "Type," change *Catotropa* to *Cacotropa*.

Tribe CRYPTINI

(= *Mesostenini* of Catalog)

Genus CHRISTOLIA Brullé, pp. 258-259

texana (Ashmead). Ind.

Genus CRYPTUS Fabricius

(= *Trachysphyrus* Haliday of Catalog, pp. 259-263)

Cryptus Fabricius, 1804. Replace "Preocc." with: Placed on Official List of Generic Names in Zoology (Op. 157, 1945). Delete parentheses around author name of each valid specific entry except *iroquois* (Viereck), and also "n. comb." following each entry.

**eleucopus* Walkley, n. name.

Cryptus leucopus Ashmead, 1890. Preocc.

leucopus Ashmead. Preocc. in *Cryptus* by Gmelin, 1790. Replaced by *eleucopus* n. name, q. v.

rufovinctus Pratt. Host: *Trichoplusia ni* (Hbn.)

Genus COMPSOCRYPTUS Ashmead, pp. 263-264

fasciipennis (Brullé). Fla. (Key Largo, Key West, Florida City).

Genus MESOSTENUS Gravenhorst, pp. 264-265

gracilis Cresson. Host: *Myelois venipars* Dyar.

thoracicus Cresson. Host: *Acrobasis betulella* Hulst, *Dioryctria disclusa* Heinr.

POLYCYRTUS subgenus POLYCYRTUS Spinola, p. 265

neglectus Cushman. Wis.

Genus IDIOLISPA Foerster, p. 266

limata (Cresson). Host: egg sac of *Lycosa gulosa* Walck.

Genus HOPLOCRYPTUS Thomson, p. 268-269

gracilis (Provancher). Change *Agrothereutes* (*Habrocryptus*) *graenicheri* Viereck to *Habrocryptus graenicheri* Viereck.

Genus AGROTHEREUTES Foerster, pp. 269-270

cimbicivorus (Cushman), emend.

Spilocryptus (!) *cimbicivorus* (!) Cushman, 1924 (wrongly 1925 in Catalog).

Genus ISCHNUS Gravenhorst, pp. 270-271

fraterculus fraterculus (Provancher).

Phygadeuon fraterculus Provancher, 1886. *P. 3-annulatus* Provancher, preocc., q. v.

**fraterculus tricircularis* Walkley, n. name.

Phygadeuon 3-annulatus Provancher, 1882. Preocc.

inquisitorius atriceps (Cresson). Host: *Choristoneura fumiferana* (Clem.).

inquisitorius atricollaris (Walsh). Change *Ischus exilis* Provancher to *Ischnus exilis*.

oregonensis Cushman. Transf. to *Pseudischnus* Walkley, q. v.

3-annulatus fraterculus (Provancher). Replaced by *fraterculus fraterculus*, *q. v.*

3-annulatus 3-annulatus (Provancher). Preocc. in *Phygadeuon* by Gravenhorst, 1829. Replaced by *tricircularis* n. name, *q. v.*

***Genus PSEUDISCHNUS Walkley**

Pseudischnus Walkley, 1954. Wash. Acad. Sci. Jour. 44: 219.

Type: *Ischnus oregonensis* Cushman. By monotypy and orig. desig.

Place in Cryptini before *Chromocryptus* Ashmead, p. 271.

oregonensis (Cushman). Calif. Transf. from *Ischnus* Gravenhorst, p. 270.

Genus POLISTIPHAGA Cushman, p. 272

Under type designation change "orig. desig." to By monotypy and orig. desig.

Genus LYMEON Foerster, pp. 272-273

Under type designation, change "Monob." to: Included by Ashmead, 1894. *orbum* (Say). Host: *Eurycyttarus confederata* (G. & R.)

Genus POLYCYRTIDEA Viereck, p. 273

flavopicta (Ashmead). Host: *Rupela albinella* (Cram.) (in British Guiana).

Genus XYLOPHRURUS Foerster, pp. 273-274

Nyxeophilus Foerster. Change author of genotype *N. bimaculatus* to Thomson.

Genus HELCOSTIZUS Foerster, p. 275

Mesocryptus Thompson. Change author to Thomson.

Genus ACRORICNUS Ratzeburg, pp. 275-276

Revision: Mitchell, 1950. Ent. Soc. Amer. Ann. 43: 249-261.

aequatus aequatus (Say). A subsp. of *stylator* Thunberg.

aequatus junceus (Cresson). A subsp. of *stylator* Thunberg.

edwardsii (Cresson). A subsp. of *stylator* Thunberg.

excelsus (Cresson). A subsp. of *stylator* Thunberg.

stylator aequatus (Say). N. S., P. E. I., south to N. Y., west to Minn. and Alta. Host: *Eumenes fraternus* Say.

Acroricnus aequatus aequatus (Say). A subsp. of *stylator* (teste Mitchell, 1950. Ent. Soc. Amer. Ann. 43: 251, 258).

**stylator axilaris* Mitchell. So. Dak. (Harney Peak).

Acroricnus stylator axilaris Mitchell, 1950. Ent. Soc. Amer. Ann. 43: 251, 259. ♀.

stylator edwardsii (Cresson), changed status. Oreg., Calif.

Acroricnus edwardsii (Cresson). Reduced to subsp. rank (teste Mitchell, 1950. Ent. Soc. Amer. Ann. 43: 251, 259).

stylator excelsus (Cresson), changed status. Colo., B. C.

Acroricnus excelsus (Cresson). Reduced to subsp. rank (teste Mitchell, 1950. Ent. Soc. Amer. Ann. 43: 251, 255).

stylator junceus (Cresson). Que. to N. C., west to Ont., Minn., Mo. Hosts: *Ancistrocerus birenimaculatus* (Sauss.), *A. tigris* (Sauss.), *Sceliphron caementarium* (Dru.)

Acroricnus aequatus junceus (Cresson). A subsp. of *stylator* (teste Mitchell, 1950. Ent. Soc. Amer. Ann. 43: 251, 257).

**stylator niger* Mitchell. Alaska, B. C., Alta., Wash., Oreg., Idaho, Mont., Utah, Colo.

Acroricnus stylator niger Mitchell, 1950. Ent. Soc. Amer. Ann. 43: 251, 253. ♀ ♂.

**stylator stylator* (Thunberg). Europe; Asia; Alaska; B. C., "Can." Host: *Sceliphron caementarium* (Dru.)

Ichneumon stylator Thunberg, 1822. Acad. Imp. Sci. St. Petersburg, Mém. 8: 265.

Cryptus macrobatus Gravenhorst, 1829. Ichn. Europaea, v. 2, p. 440. ♂ ♀.

Acroricnus Schaumii Ratzeburg, 1853. Ichn. Forstins., v. 3, p. 92. ♂.

**stylator townesi* Mitchell. Ariz.

Acroricnus stylator townesi Mitchell, 1950. Ent. Soc. Amer. Ann. 43: 251, 256. ♀ ♂.

Genus MESSATOPORUS Cushman, p. 276

ferrum-equinum (Walsh and Riley).

**Mesostenus jocosus* Provancher, 1874. Nat. Canad. 6: 300. ♀. N. syn.

Unplaced Species of Hemiteliini

Stiboscopus brooksi Brooks. Transf. from p. 235, q.v.

Tribe PHAEOGENINI

(= *Alomyini* of Catalog)

Genus PHAEOGENES Wesmael, pp. 276-278

hariolus (Cresson). Host: *Argyrotaenia dorsalana* (Dyar).

hebrus (Cresson). Host: *Pyrausta pertextalis* Led.

mellinus (Provancher). Host: *Argyrotoxa semipurpurana* Kearf.

**nigridens* Wesmael. Introduced from Europe. Mass. Host: *Pyrausta nubilalis* (Hbn.).

Phaeogenes nigridens Wesmael, 1844. Nouv. Mem. Acad. Sci. Bruxelles 18: 192. ♀ ? ♂.

Taxonomy and Biology: Smith, 1932. U. S. Dept. Agr. Tech. Bul. 331: 1-46.—Baker, 1944. Ent. Soc. Wash. Proc. 46: 134.—Arbuthnot, 1950. Jour. Econ. Ent. 43: 425.

Tribe PLATYLABINI

(= *Pristiceratini* of Catalog)

Genus PLATYLABUS Wesmael, pp. 280-281

**perkinsi* Walkley, n. name.

Ichneumon vafer Cresson, 1877. Preocc.

vafer (Cresson). Preocc. in *Ichneumon* by Gmelin, 1790. Replaced by *perkinsi* n. name, q. v.

Tribe ISCHNOJOPPINI

Genus TROGOMORPHA Ashmead, p. 282

trogiformis (Cresson). Host: *Ephyriades brunnea floridensis* Bell & Comst.

Tribe ICHNEUMONINI

(= *Amblytelini* of Catalog)

Genus HOPLISMENUS Gravenhorst, p. 283

morulus morulus (Say). Host: *Polygonia comma* (Harr.)

*Genus CARINODES Hancock

Carinodes Hancock, 1926. Entomologist 59 (758): 189.

Type: *Carinodes spinosus* Hancock. By monotypy and orig. desig.

**Ditremops* Townes, 1946. Bol. de Ent. Venezolana 5: 31, 52. N. syn. (teste H. K. Townes, in conversation).

Type: *Ichneumon abjectus* Cresson. By orig. desig.

Place in Ichneumonini after Genus *Narthecura* on p. 284.

**havanensis* (Cameron). Cuba; Fla. (Belle Glade).

Ichneumon (?) *Havanensis* Cameron, 1906. Ann. Estac. Agron. Cuba, p. 277. ♂.

Genus *MELANICHNEUMON* Thomson, pp. 284-287

Barichneumon Thomson. Delete from syn. A valid genus.

brevicinctator (Say). Host: *Plathypena scabra* (F.).

helvipes (Cresson).

**Phygadeuon ater* Provancher, 1883. Faune Ent. Canada, Hym., p. 275. (*Lapsus* for *niger*).

mucronatus (Provancher). Valid name.

Ichneumon rubicundus Cresson, 1864. Preocc.

rubicundus (Cresson). Preocc. in *Ichneumon* by Fourcroy, 1785. Replaced by former synonym, *mucronatus* Provancher, q. v.

saundersi (Cresson). Spelled *saundersii* on p. 177; add p. 141 to orig. cit.

Genus *BARICHNEUMON* Thomson

(= *Melanichneumon* of Catalog, in part, pp. 284-287)

Change author of genotype to Fabricius. Place in Ichneumonini after *Melanichneumon* on p. 287. There are synonyms and species listed in Catalog under *Melanichneumon* which have not been transferred to this genus since extensive revisionary work is not within the scope of a synoptic Catalog.

**anator* (Fabricius). Europe; Maine (Dryden).

Ichneumon anator Fabricius, 1793. Ent. System., v. 2, p. 169. (Teste Heinrich, 1953, Wash. Acad. Sci. Jour. 43: 148. ♀ ♂.)

Genus *CRATICHNEUMON* Thomson, pp. 287-290

acerbus (Cresson). A subspecies of *nigritarius* (Fabricius).

confusus Ashmead. Alaska, B. C., Que., N. Y.

duplicatus (Say). Mass.

lariae (Curtis). Transf. to *Ichneumon* (= *Pterocormus* of Catalog) p. 299, as *lariae lariae* Curtis.

nigritarius acerbus (Cresson), changed status.

Cratichneumon acerbus (Cresson). Reduced to subsp. rank (teste G. Heinrich, 1953, Wash. Acad. Sci. Jour. 43: 149).

w-album (Cresson). Host: *Apantesis phalerata* (Harr.).

Genus *AOPLUS* Tischbein, p. 290-291

Stenichneumon Thomson. Delete from syn. A valid genus, q. v.

cincticornis (Cresson). Transf. with its syn. to *Stenichneumon* Thomson as subsp. of *culpator* Schrank.

militarius (Thunberg). Transf. to *Stenichneumon* Thomson.

salvus bioculatus (Cresson). Transf. to *Stenichneumon* Thomson.

salvus pallidipennis (Viereck). Transf. to *Stenichneumon* Thomson.

salvus salvus (Cresson). Transf. with its syn. to *Stenichneumon* Thomson.

Genus *STENICHNEUMON* Thomson

(= *Aoplus* of Catalog, in part, p. 290)

Place in Ichneumonini after *Aoplus* on p. 291.

- culpator cincticornis** (Cresson), changed status. Transf. from **Aoplus** Tischbein, p. 290, (*teste* Heinrich, 1953. Wash. Acad. Sci. Jour. 4: 149).
- militarius** (Thunberg). Host: *Plusia* sp. Transf. from **Aoplus** Tischbein, p. 290 (*teste* Heinrich, 1953, Wash. Acad. Sci. Jour. 43: 148).
- salvus bioculatus** (Cresson), n. comb. Transf. from **Aoplus** Tischbein, p. 290.
- salvus pallidipennis** (Viereck), n. comb. Transf. from **Aoplus** Tischbein, p. 290.
- salvus salvus** (Cresson), n. comb. Transf. from **Aoplus** Tischbein, p. 290.

Genus PATROCLUS Cresson, p. 291

***walleyi** Heinrich. Ont., N. W. T.

Patroclus walleyi Heinrich, 1956. Canad. Ent. 88(8): 486. ♀ ♂.

*Genus EUTANYACRA Cameron

Eutanyacra Cameron, 1903. Ent. Soc. London Trans., p. 227.

Type: *Eutanyacra pallidicoxis* Cameron, by monotypy.

Place in Ichneumonini after *Chasmias* Ashmead, p. 292.

***chillcotti** Heinrich.

Eutanyacra chillcotti Heinrich, 1956. Canad. Ent. 88(8): 478. ♀ ♂.

improvisus (Cresson). Transf. with its syn. from **Amblyteles**, p. 294 (*teste* Heinrich, 1956, Canad. Ent. 88(8): 478).

succinctus (Brullé). Transf. with its syn. from **Pseudamblyteles**, p. 294 (*teste* Heinrich, 1956. Canad. Ent. 88(8): 478).

Genus PSEUDAMBLYTELES Ashmead, pp. 292-294

apicalis (Cresson). Preocc. in *Ichneumon* by Wiedeman, 1824. Replaced by **apiculatus** n. name, *q. v.*

***apiculatus** Walkley, n. name.

Ichneumon apicalis Cresson, 1864. Preocc.

grotei (Cress.). Iowa.

succinctus (Brullé). Transf. with its syn. to *Eutanyacra* Cameron, *q. v.*

*Genus LIMERODOPS Heinrich

Limerodops Heinrich, 1949. Münch. Ent. Gesell. Mitt. 35-39: 44.

Type: (*Amblyteles elongatus* Brischke) = *Amblyteles fossorius* (Linnaeus). Orig. desig.

Place in Ichneumonini on p. 294, after *Pseudamblyteles* Ashmead.

***fossorius belangeri** (Cresson), changed status. Maine. Transf. from *Amblyteles*, p. 294 (*teste* Heinrich, 1953, Wash. Acad. Sci. Jour. 43: 150).

Genus AMBLYTELES Wesmæel, pp. 294-295

belangeri Cresson. Transf. to *Limerodops* Heinrich as subsp. of **fossorius** (Linnaeus).

improvisus (Cresson). Transf. with its syn. to *Eutanyacra* Cameron, *q. v.*

ormenus (Cresson). Alaska.

rufizonatus (Cresson).

Ichneumon Marianopolitanensis Provancher, 1875, etc. Change to *Ichneumon Marianopolitanensis* (spelled *Marianopolitanus* in key) Provancher, 1875. Nat. Canad. 7: 24, 81. ♀.

Genus SPILICHNEUMON Thomson, p. 295

pomilius (Provancher). Change from *pomilus*. Change also in bibliographic reference.

Genus **TRICHOLABUS** Thomson, p. 296

citatus (Provancher). Alaska.

Genus **ICHNEUMON** Linnaeus

(= **Pterocormus** Foerster of Catalog, pp. 296-301)

Replace first line of generic synonymy with:

Ichneumon Linnaeus, 1758. Syst. Nat., ed. 10, pp. 343, 560.

Type: **Ichneumon extensorius** Linnaeus. Desig. by Int. Com. Zool. Nomencl. Op. 159, 1945.

Delete parentheses from author name of each species included, except the 14 species not originally described in **Ichneumon**.

alpestriformis Viereck. Alaska: St. George Is., St. Matthew Is.

***amauropus** Heinrich. N. W. T. (Ellesmere Is.)

Ichneumon amauropus Heinrich, 1956. Canad. Ent. 88(8): 481. ♀.

***ambulatorius** Fabricius.

Ichneumon ambulatorius Fabricius, 1775. Syst. Ent., p. 329. ♀.

Ichneumon jucundus Brullé (Syn. by Perkins, 1952, Ent. 85: 66, 67).

Taxonomy: Heinrich, 1953. Wash. Acad. Sci. Jour. 43: 149.

artemis (Viereck). Alta., Man., Newfoundland, Labrador.

Taxonomy: Heinrich, 1956. Canad. Ent. 88(8): 486.

atrox Cresson. Alaska.

aurivillii (Roman). Place as syn. of **Ichneumon lariae lariae** Curtis (*teste* Heinrich, 1956. Canad. Nat. 88(12): 686).

bimembris Provancher. A subsp. of **languidus** Wesmael.

bipunctatus Cresson. Preocc. in **Ichneumon** by Gmelin, 1790. Replaced by former synonym, **festus** Cresson, *q. v.*

***byrdiae** Heinrich. N. W. T., Yukon. Host: *Byrdia rossi* Curt.

Ichneumon byrdiae Heinrich, 1956. Canad. Ent. 88(8): 479. ♀ ♂.

***byrdiops** Heinrich. Alaska (Seward).

Ichneumon byrdiops Heinrich, 1956. Canad. Ent. 88(8): 480. ♀.

caliginosus Cresson. Alaska.

***cessatorops** Heinrich. Yukon.

Ichneumon cessatorops Heinrich, 1956. Canad. Ent. 88(8): 482, 484. ♀.

***cessatorops kazubazuae** Heinrich. Que. (Kazubazua).

Ichneumon cessatorops Kazubazuae Heinrich, 1956. Canad. Ent. 88(8): 482, 485. ♀.

cinctitarsis Provancher. A subsp. of **deliratorius** Linnaeus.

deliratorius cinctitarsis Provancher, changed status.

Pterocormus cinctitarsis (Provancher). Reduced to subsp. rank (*teste* Heinrich, 1953, Jour. Wash. Acad. Sci. 43: 149).

festus Cresson. Valid name.

Ichneumon bipunctatus Cresson, 1865. Preocc.

***gaviscolor** Heinrich. Que. (Ft. Chimo).

Ichneumon gaviscolor Heinrich, 1956. Canad. Ent. 88(8): 482, 485. ♀.

inurbanus Cresson. N. Y.

jucundus Brullé. Syn. of **ambulatorius** Fabricius.

languidus bimembris Provancher, changed status. Maine.

Pterocormus bimembris (Provancher). Reduced to subsp. rank (*teste* Heinrich, 1953, Jour. Wash. Acad. Sci. 43: 149).

***lariae labradoris** Heinrich. Hopedale, Newfoundland.

Ichneumon lariae labradoris Heinrich, 1956. Canad. Ent. 88(12): 690. ♀.

lariae *lariae* Curtis. Changed status. Baffin Is., Southampton Is. Transf. from *Cratichneumon*, p. 288 (*teste* Heinrich, 1956. Canad. Ent. 88(12): 686).

Ichneumon aurivillii Roman (Syn. by Heinrich, *ibid*).

**lariae subarcticus* Heinrich. N. W. T., Man., Que.

Ichneumon laeiae subarcticus Heinrich, 1956. Canad. Ent. 88(12): 687, 689. ♀.

**masoni* Heinrich. Alaska.

Ichneumon masoni Heinrich, 1956. Canad. Ent. 88(8): 479. ♀.

**nebularum* Heinrich. Labrador (Hopedale).

Ichneumon nebularum Heinrich, 1956. Canad. Ent. 88(8): 482, 483. ♀.

neutralis Cresson. Ariz. Host: *Estigmene acraea* (Dru.)

nigratorius Fabricius. Preocc. in *Ichneumon* by Müller, 1776. Replaced by *nigriculus* n. name, *q. v.*

**nigriculus* Walkley, n. name.

Ichneumon nigratorius Fabricius, 1804. Preocc.

pedalis Cresson. Alaska.

**perretti* Heinrich. Labrador (Hopedale).

Ichneumon perretti Heinrich, 1956. Canad. Ent. 88(8): 482. ♀.

**trigemellus* Heinrich. N. W. T., Man.

Ichneumon trigemellus Heinrich, 1956. Canad. Ent. 88(8): 482, 484. ♀.

uncinatus Cresson. Alaska.

Tribe PROTICHNEUMONINI

(= *Ichneumonini* of Catalog)

Genus COELICHNEUMON Thomson

(= *Ichneumon* Linnaeus of Catalog, pp. 301-303)

Delete first two lines of generic synonymy. Change author of *Coelichneumon* in line 3 to Thomson.

Place author name of each included valid species in parentheses except: *barnstoni* Morley; *solutus occidentalis* Roman.

barnstoni Morley. Delete "n. comb."

caeruleus Cresson. Syn. of *eximius* (Stephens).

**calcatorius* (Thunberg). Europe; Maine. Host: *Olene* sp.

Ichneumon calcatorius Thunberg, 1822. Acad. Imp. Sci. St. Petersburg, Mém. 8: 254.

**eximius* (Stephens).

Ichneumon eximius Stephens, 1835. Illus. Brit. Ent. Mandibulata, v. 7, p. 186.

Ichneumon caeruleus Cresson (syn. by Perkins, 1953, Brit. Mus. (Nat. Hist.) Ent. Bul. 3: 107, 110).

maurus (Brullé). Tenn.

navus (Say). Host: *Hyphantria cunea* (Dru.) (reared by R. Mitchell).

orpheus (Cresson). Host: *Ecpantheria deflorata* (F.)

**pumilionobilis* Heinrich. Europe; Maine.

Coelichneumon pumilionobilis Heinrich, 1951. Bonner Zool. Beitr. 2: 251. ♀ ♂.

Coelichneumon pumiliosimilis [lapsus] Heinrich, 1953. Wash. Acad. Sci. Jour. 43: 148. ♀ ♂.

solutus occidentalis Roman. Delete "n. comb."

**tauma* Heinrich. Europe; Maine. Host: Geometridae.

Coelichneumon tauma Heinrich, 1951. Bonner Zool. Beitr. 2: 253. ♀.

Tribe TROGINI

Genus TROGUS Panzer, p. 306

flavipennis Cresson. Host: *Papilio* sp.

Subfamily LISSONOTINAE

(= *Banchinae* of Catalog)

Genus GLYPTA Gravenhorst, p. 306

borealis Cresson. Que.

erratica Cresson. Host: *Pyrausta pertextalis* Led.

evetriae Cushman. Calif.

fumiferanae (Viereck). Maine, Mich., Minn., Mont., Oreg. Hosts:
Choristoneura pinus Free., *Acleris variana* (Fern.)

mutica Cushman. Maine. Host: *Archips persicana* (Fitch).

simplicipes Cresson. Host: *Tortrix pallorana* Rob.

Tribe LYCORININI

Spelled *Lycorini* in Catalog. Transf. with its component genus and species to Pimplinae after genus *Arotes* Gravenhorst, p. 209.

Tribe LISSONOTINI

Genus ARENETRA Holmgren, p. 310

canadensis Cresson. Host: *Actebia fennica* Tausch.

Genus LAMPRONOTA Curtis, p. 311

Under type designation, change "Monob." to: "Orig. desig."

LISSONOTA subgenus LISSONOTA Gravenhorst, pp. 311-312

rufipes Cresson. Preocc. in *Lissonota* by Brischke, 1864. Replaced by former synonym, *tegularis* (Cresson), q. v.

tegularis (Cresson). Valid name.

Lissonota rufipes Cresson, 1868. Preocc.

**Arenetra Quebecensis* Provancher, 1875. Nat. Canad. 7: 141. ♂.

LISSONOTA subgenus ANARTHRONOTA Schmiedeknecht, p. 312

brunnea (Cresson). Delete parentheses and "n. comb."

Genus PIMPLOPTERUS Ashmead, pp. 312-314

punctulatus (Cresson). Add. p. 160 to orig. cit. of *punctulata*.

Genus TREVORIA Ashmead, p. 314

yakutatensis Ashmead, emend. of *yukatensis* Ashmead.

Genus SYZEUCTUS Foerster, p. 315

elegans (Cresson). Hosts: *Tetralopha robustella* Zell., *T. asperatella* Clem.

Tribe BANCHINI

Genus EXETASTES Gravenhorst, pp. 316-319

obscurus Cresson. N. C.

ruficoxalis Cushman. Alaska.

Genus BANCHUS Fabricius, pp. 320-321

monileatus alticola (Ashmead). Spelled *alticolus* in Catalog.

pallescens Provancher.

**Corynephanes tarsalis* Ashmead MS, in Slosson, 1902. Ent. News 13: 321. Validated in syn. by Cushman, 1922. U. S. Natl. Mus. Proc. 61 (art. 8): 8.

**reparandus* Schulz.

Banchus tricolor Cameron, 1905 (1903 in Catalog). Preocc.

Banchus reparandus Schulz, 1906. Spolia hym., p. 95. N. name.

tricolor Cameron. Preocc. in *Banchus* by Schrank, 1802. Replaced by *reparandus* Schulz, q. v.

Subfamily MESOLEIINAE
(= *Scolobatinae* of Catalog)

Genus EUCEROS Gravenhorst, pp. 321-322

thoracicus Cresson. Host: *Pristiphora erichsonii* (Htg.)

**Scopiorus flavopictus* Ashmead MS, in Slosson, 1902. Ent. News 13: 6. Validated in syn. by Cushman, 1922, U. S. Natl. Mus. Proc. 61 (art. 8): 13.

Genus TREMATOPYGUS Holmgren, p. 322

Epactus Thomson. After bibliographic reference add: Emend. Delete type desig.

RHORUS subgenus CYPHANZA Cameron, p. 323

tristis (Provancher).

Erromenus tristis Provancher. Change to *Erronemus* (!) *tristis*.

XENOSCHESIS subgenus XENOSCHESIS Foerster, p. 325

cinctiventris (Ashmead).

**Pyracmon clypeatum* Ashmead MS, in Slosson, 1897. Ent. News 8: 237. Validated in syn. by Cushman, 1922, U. S. Natl. Mus. Proc. 61 (art. 8): 26, 30.

**Erigloea longitarsis* Ashmead MS, in Slosson, 1906. Ent. News 17: 324. Validated in syn. by Cushman, 1922 (*loc. cit.* pp. 12, 30).

XENOSCHESIS subgenus POLYCINETIS Foerster, p. 325

limatus (Cresson). Change ♂ to "♂" = ♀ (*teste* L. K. Smith, who saw type).

Tribe MESOLEIINI

Taxonomy: Burks, 1952. Ent. Soc. Amer. Ann. 45: 80-130 (key).

Genus OPHELTES Holmgren, p. 326

glaucoplerus flavipennis (Provancher). Preocc. in *Campoplex* by Cresson, 1873. Replaced by *glaucoplerus galbipennis* n. name, q. v.

**glaucoplerus galbipennis* Walkley, n. name. Oreg., Wash., Alaska.
Campoplex flavipennis Provancher, 1874. Preocc.

***Genus NICTULA Burks**

Nictula Burks, 1952. Ent. Soc. Amer. Ann. 45: 81, 88.

Type: *Westwoodia fumipennis* Provancher. By monotypy and orig. desig.

Place in Catalog after *Opheltes*, p. 326.

fumipennis (Provancher). N. Y. Tranf. from *Perilissus*, p. 327.

Genus PERILISSUS Holmgren, pp. 326-327

Oetophorus Foerster. Transf. from p. 327 of Catalog (*teste* Burks, 1952. Ent. Soc. Amer. Ann. 45: 94).

Symphobus Foerster. Syn. of *Oetophorus* in Catalog.

Taxonomy: Burks, 1952. Ent. Soc. Amer. Ann. 45: 94-103.

**aethus* Burks. Ohio (Hocking Co.)

Perilissus aethus Burks, 1952. Ent. Soc. Amer. Ann. 45: 95, 99. ♂.

**araius* Burks. Conn., Ont., N. H., N. Y., N. J., Mich., S. C., Tenn., Colo.

Perilissus araius Burks, 1952. Ent. Soc. Amer. Ann. 45: 95, 101. ♀ ♂.

bicolor (Cresson). Preocc. in *Perilissus* by *bicolor* Brischke; place as syn. of *P. ruficornis* Ashmead.

coloradensis (Ashmead). Calif., Ariz., N. Dak., Sask., Ont.

concolor (Cresson). Iowa. Host: *Dolerus* sp.

decoloratus (Cresson). B. C.

frontosus (Davis). Transf. to *Mesoleius* Holmgren, p. 332.

oculatus (Davis). Transf. to *Mesoleius* Holmgren, p. 333.

opulentus (Davis). Transf. to *Parastadus* Burks, q. v.

osflavus (Davis). Transf. to *Mesoleius* Holmgren, p. 333.

pleuralis (Cresson). Transcont. in Transit. and U. Austr. Zones. Hosts: *Nematus* sp., *Pontania* sp. Transf. from *Oetophorus* Foerster, pp. 327-328.

Oetophorus nasoni Davis, (syn. by Burks, 1952, Ent. Soc. Amer. Ann. 45: 97).

ruficornis (Ashmead). Que. and Ont. south to Ala. Syn. of *P. bicolor* (Cresson) in Catalog, which is secondary homonym of *P. bicolor* Brischke.

Mesoleptus bicolor Cresson.

Taxonomy: Burks, 1952. Ent. Soc. Amer. Ann. 45: 95, 96-97, fig.

stretchii (Cresson). B. C., Colo. Transf. from *Oetophorus*, p. 328.

**townesi* Burks. N. J., N. Y., Pa.

Perilissus townesi Burks, 1952. Ent. Soc. Amer. Ann. 45: 95. ♀ ♂.

Genus PARASTADUS Burks

Parastadus Burks, 1952. Ent. Soc. Amer. Ann. 45: 81, 92.

Type: *Erigloea opulenta* Davis. By monotypy and orig. desig.

Place in Catalog after *Perilissus*, p. 327.

opulentus (Davis). Md., Mass. Transf. from *Perilissus*, p. 327.

Genus OETOPHORUS Foerster, pp. 327-328

Syn. under *Perilissus* Holmgren, p. 326, and component species transf. to that genus (*teste* Burks, 1952, Ent. Soc. Amer. Ann. 45: 94).

nasoni Davis. Transf. to *Perilissus* as syn. of *pleuralis* (Cresson).

Genus LAPHYROSCOPUS Foerster, p. 328

capitatus (Cresson). Fla.

Genus LATHROLESTES Foerster, pp. 328-329

mentalis (Davis).

**Monoblastus nigriiventris* Ashmead MS, in Slosson, 1902. Ent. News 12: 321. Validated in syn. by Cushman, 1922, U. S. Natl. Mus. Proc. 61 (art. 8): 17.

Genus MESOLEIUS Holmgren, pp. 331-334

affinis (Ashmead). Preocc. in *Mesoleius* by Brischke 1892. Replaced by *congener* n. name, q. v.

**aquilonaris* Walkley, n. name.

Calliphrurus frigidus Ashmead, 1902. Preocc.

**congener* Walkley, n. name.

Calliphrurus affinis Ashmead, 1902. Preocc.

frigidus (Ashmead). Preocc. in *Mesoleius* by Holmgren, 1855. Replaced by *aquilonaris* n. name, *q. v.*

frontosus (Davis). Transf. from *Perilissus* Holmgren, p. 327 (*teste* Burks, 1952, Ent. Soc. Amer. Ann. 45: 87).

lucens (Provancher).

**Hadrodactylus affinis* Ashmead MS, in Slosson, 1902. Ent. News 13: 6. Validated in syn. by Cushman, 1922, U. S. Natl. Mus. Proc. 61 (art. 8): 4.

oculatus (Davis). Transf. from *Perilissus* Holmgren, p. 327 (*teste* Burks, 1952, Ent. Soc. Amer. Ann. 45: 87).

osflavus (Davis). Transf. from *Perilissus* Holmgren, p. 327 (*teste* Burks, 1952, Ent. Soc. Amer. Ann. 45: 87).

Genus LAMACHUS Foerster, pp. 334-335

contortionis Davis. After *Lagarotis diprioni* Rohwer add 1915.

Tribe EURYPROCTINI

Genus IPOCTONINUS Hincks, p. 338

rufigaster (Provancher). Ont. (Ottawa). Transf. from syn. of *Acrotomus ornatus* (Walsh), p. 228 (*teste* W. R. M. Mason, 1955, Canad. Jour. Zool. 33: 20).

Genus HADRODACTYLUS Foerster, pp. 338-339

inceptus (Cresson).

**Mesoleptus Sancti-Hyacinthi* (misspelled *Sancti-Hyacinthi* in key) Provancher, 1875. Nat. Canad. 7: 251, 271, 272. ♂.

Tribe CALLIDIOTINI

Genus CALLIDIOTES Foerster, p. 340

antennatus (Cresson). Change to *antennata*.

Subfamily COLLYRIINAE

Transf. with component genus and species to p. 209, placing after Pimplinae.

Subfamily PLECTISCINAE

Genus MEGASTYLUS Schidte, p. 343

lineator Schiødte.

**Aperileptus pleuralis* Ashmead MS, in Slosson, 1902. Ent. News 13: 321. Validated in syn. by Cushman, 1922, U. S. Natl. Mus. Proc. 61 (art. 8): 18.

Subfamily ORTHOCENTRINAE

Genus ORTHOCENTRUS Gravenhorst, pp. 345-346

lucens (Provancher). Delete parentheses.

protuberans Holmgren. Alaska.

Genus **STENOMACRUS** Foerster, pp. 347-348

monticola (Cushman).

**Hypolepus* (!) *alticola* Ashmead MS, in Slosson, 1906. Ent. News 17: 324. Validated by Cushman, 1922, U. S. Natl. Mus. Proc. 61 (art. 8): 16.

Subfamily **DIPLAZONINAE**

Thomson, in his treatment of this group (1890, Opusc. Ent. fasc. 14, p. 1464), stated that while Holmgren like Gravenhorst placed all the species in *Bassus*, Foerster made many new genera, some of the names of which he (Thomson) was using. Therefore the Thomson names are treated here as emendations of the Foerster genera.

Genus **DIPLAZON** Nees, pp. 348-349

Zootrephus of authors.

bizonarius (Gravenhorst). Transf. from *Zootrephus* of Catalog, p. 349.

ichneumonoides (Provancher), n. comb. Transf. from *Zootrephus* of Catalog, p. 349.

rufiventris (Gravenhorst), n. comb. Transf. from *Zootrephus* of Catalog, p. 349. (Revisionary study may place this elsewhere.)

scutellaris (Cresson). Alta., Oreg.

***tricinctorius** (Thunberg). Utah; Europe.

Ichneumon tricinctorius Thunberg, 1822. Acad. Imp. Sci. St. Petersburg, Mem. 8: 278.

Genus **ZOOTREPHUS** Thomson, p. 349

Delete from Catalog. Not a valid genus but an emendation of *Zootrephes* Foerster of which no North American species are known. Transf. included species to *Diplazon* Nees, p. 348.

Genus **PROMETHES** Foerster, pp. 349-350

Promethus Thomson. Add "emend." after reference. Delete type design. **elongatus** (Provancher).

**Promethus albicoxis* Ashmead MS, in Slosson, 1906. Ent. News 17: 324. Validated in syn. by Cushman, 1922, U. S. Natl. Mus. Proc. 61 (art. 8): 25.

Genus **SYRPHOCTONUS** Foerster, pp. 350-351

Homotropus Foerster, 1868. Naturh. Ver. Rheinlande Verh. 25: 162.

Type: *Bassus elegans* Gravenhorst, by substitution of *Homotropus* for *Homocidus* Morley (= *Homoporus* Thomson *lapsus* for *Homotropus* Foerster).

Homoporus Thomson, 1890. *Lapsus* for *Homotropus*.

Homocidus Morley. N. name, unnecessarily proposed, for *Homoporus* Thomson.

alaskensis (Ashmead). Maine, Que.

albopictus (Davis). B. C.

belangerii (Provancher). Ill., Mich., Wis.

cultriformis (Davis).

**Zootrephes bicoloripes* Ashmead MS, in Slosson, 1902. Ent. News 13: 321. Validated in syn. by Cushman, 1922, U. S. Natl. Mus. Proc. 61 (art. 8): 30.

fuscitarsus (Provancher). Valid name. *Tryphon humeralis* Provancher, 1875. Preocc.

humeralis (Provancher). Preocc. in *Tryphon* by Gravenhorst, 1829. Replaced by former synonym, *fuscitarsus* Provancher, q. v.

Himertosoma quinquecinctum Ashmead MS, in Slosson, 1902. Ent. News 13: 320. Validated in syn. by Cushman, 1922, (*loc. cit. supra*).

vertebratus Cushman.

**Syrphoctonus bilineatus* Ashmead MS, in Slosson, 1900. Ent. News 11: 320. Validated in syn. by Cushman, 1922, U. S. Natl. Mus. Proc. 61 (art. 8): 29.

Genus PHTHORIMA Foerster, pp. 351-352

Phthorima Foerster, 1868. Under type designation change "Included by Dalla Torre, 1901" to: "Desig. by Viereck, 1914."

Phthorimus Thomson. Add "Emend." after bibliographic reference. Delete type desig.

Genus ENIZEMUM Foerster, p. 352

Delete *Homotropus* Foerster of Catalog from syn. See *Syrphoctonus* Foerster, p. 350.

ornatum (Gravenhorst). S. C.

Subfamily METOPIINAE

METOPIUS subgenus CLÉMONTIA Michener, pp. 352-353

Misprinted *Clemontia* in Catalog.

comptus Cresson. After *laticinctus* Cresson, change p. xxviii to xxix, and ♂ to ♀.

scitulus Cresson. Change date from 1897 to 1879.

xanthostigma Ashmead. Va.

Genus PSEUDOMETOPIUS Davis, p. 353

**Tylocomnoides* Uchida, 1940. Sapporo Nat. Hist. Soc. Trans. 16(3): 178 (syn. by Uchida, 1956. Ins. Mats. 20(1-2): 49).

Type: *Tylocomnoides egawai* Uchida, by monotypy and orig. desig.

Genus SPUDAEUS Gistel, p. 353

Misspelled *Spudeaus* in Catalog.

Genus CHORINAEUS Holmgren, p. 354

californicus Ashmead. Wash.

carinatus (Cresson). Maine, Conn., N. Y., N. J., Pa., Ohio. Hosts: *Ancyliis comptana fragariae* (W. & R.); *Strepsicrates smithiana* var. *indentana* (Dyar).

excessorius Davis. Iowa, Kans., Ga., Ala., Utah, Va., N. J. Host: *Ancyliis comptana fragariae* (W. & R.).

opacitas Davis. Ariz.

pleturus Davis. Ont., N. H., Conn., N. J., Pa., N. C., Wis.

Genus PERIOPE Haliday, pp. 354-355

aethiops (Cresson). Nebr.

Genus TRICLISTUS Foerster, p. 355

brunnipes (Cresson). Iowa, Mont., Oreg.

propinquus (Cresson). Ga., Ala.

thoracicus Ashmead. Md., Mich., Wis., S. Dak.

Genus HYPsicERA Latreille, p. 356

mansuetor (Gravenhorst). Pa., Minn., Colo., B. C.

Genus EXOCHUS Gravenhorst, pp. 356-357

alpinus Cushman. Preocc. in *Exochus* by Zetterstedt, 1838. Replaced by *montanus* n. name, q. v.

mandibularis Cushman.

**Polyclistus frontalis* Ashmead MS, in Slosson, 1902. Ent. News 13: 321.

Validated in syn. by Cushman, 1922, U. S. Natl. Mus. Proc. 61 (art. 8): 13.

**montanus* Walkley, n. name.

Exochus alpinus Cushman, 1922. Preocc.

**Amerolytus* (!) *flavifrons* Ashmead, MS, in Slosson, 1906. Ent. News 17: 324. Validated in syn. by Cushman, 1922, U. S. Nat. Mus. Proc. 61 (art. 8): 13. Preocc. in *Exochus* by Boheman, 1863.

**pictilis* Walkley, n. name.

Amesolytus pictus Fyles, 1904. Preocc.

pictus (Fyles). Preocc. in *Exochus* by Holmgren, 1856. Replaced by *pictilis* n. name, q. v.

Subfamily OPHIONINAE**Tribe CAMPOPLEGINI**

(= *Porizonini* of Catalog)

Nomenclature: Roman, 1932. Ent. Tidskr. 53(1): 9 [see *moderator* L.]

Genus CYMODUSA Holmgren, p. 359

provancheri (Viereck). Transf. to *Campoletis*, p. 367. Originally proposed as new name for *distinctus* (Provancher) preocc.

Genus CAMPOPLEX Gravenhorst, pp. 359-363

coxalis (Cushman). Preocc. in *Campoplex* by Spinola, 1851. Replaced by *ecoxalis* n. name, q. v.

**ecoxalis* Walkley, n. name.

Cymodusa coxalis Cushman, 1922. Preocc.

**eruficinctus* Walkley, n. name.

Pyraemon ruficinctum Viereck, 1925-26. Preocc.

laevisima (Viereck). Valid name.

Neonortonia nigripes Viereck, 1925. Preocc.

mellipes (Provancher). Valid name.

Limneria rufipes Provancher, 1874. Preocc.

nigripes (Viereck). Preocc. in *Campoplex* by Gravenhorst, 1829. Replaced by former synonym *laevisima* Viereck, q. v.

ruficinctum (Viereck). Preocc. in *Campoplex* by Gravenhorst, 1829. Replaced by *eruficinctus* n. name, q. v.

rufipes (Provancher). Preocc. in *Campoplex* by Gravenhorst, 1829. Replaced by former synonym *mellipes* (*lapsus*) Provancher, q. v.

tecumseh Viereck. Alta. Host: *Gnorimoschema* spp.

validus (Cresson.) Hosts: *Pyrausta penitalis* Grote, *P. futilalis* (Led.).

Genus EXIDECHTHIS Walkley, new name

(= *Idechthis* Foerster of Catalog, p. 363)

Idechthis Foerster, 1868. Change "? preocc." to Preocc. by Huebner, 1821.

All species in *Idechthis* in catalog will be n. comb. in *Exidechthis*.

canescens (Gravenhorst), n. comb. Host: *Clipsis peritana* (Clem.)

Idechthis oahuensis Ashmead, 1901. Fauna Hawaiiensis, v. 1, p. 355. ♀. (Cited as a syn. of *canescens* in genotype cit.)

Genus CASINARIA Holmgren, pp. 364-365

Correct spelling of author name.

grandis Walley. As syn. of *C. texana* (Ashmead) in Catalog, which is preocc. *texana* (Ashmead). Syn. of **grandis** Walley. Preocc. by *C. texana* Ashmead, now in *Dusona*, p. 374.

Genus BATHYPLECTES Foerster, p. 366

curculionis (Thomson). Wyo. Host: *Hypera brunneipennis* (Boh.)

Genus BIOLYSIA Schmiedeknecht, p. 366

tristis (Gravenhorst). S. C., Calif.

Genus CAMPOLETIS Foerster, pp. 366-370

argentifrons (Cresson.) Hosts: *Agrotis ypsilon* (Rott.), *Ceramica picta* (Harr.), *Crambus zeelus* Fern., *Dargida procincta* (Grt.), *Grapholitha molesta* (Busck), *Heliothis zea* (Boddie), *H. virescens* (F.), *Hymenia recurvalis* (F.), *Lacinipolia stricta* (Wlk.), *Pyrausta nubilalis* (Hbn.).

**Limneria consimilis* Ashmead, 1890. U. S. Natl. Mus. Proc. 12: 435. ♀.

Mesoleptus dubitatus Cresson. Add "Preocc." after bibliographic reference.

distinctus (Provancher). Preocc. in *Cymodusa* by Cresson, 1864. Renamed **provancheri** by Viereck, 1925-26, q. v.

perdistinctus (Viereck).

Biology: Wene, 1943. Jour. Econ. Ent. 36: 333-334—Grayson, 1944. Jour. Econ. Ent. 37: 712-73.

provancheri (Viereck). Transf. from *Cymodusa*, p. 359. Valid name for *distincta* (Provancher), preocc.

Limneria distincta Provancher, 1882. Change v. 3 to v. 13.

Genus DUSONA Cameron, pp. 370-375

diversa (Norton). W. Va.

Genus NEPIERA Foerster, p. 375

marginata (Provancher). Host: *Pyrausta pertextalis* Led.

Genus HOROGENES Foerster, pp. 376-380

comptoniellae (Viereck). Host: *Acrobasis betulella* Hulst.

insularis (Cresson). Hosts: *Plutella maculipennis* (Curt.), *Hellula undalis* (F.)

punctorius (Roman). Iowa.

Genus HYPOSOTER Foerster, pp. 380-383

dimidiatus (Ashmead).

Zachresta dimidiata Ashmead. Generic name misspelled in Catalog.

exiguae (Viereck). Host: *Anthocaris genutia* (F.).

Genus OLESICAMPE Foerster, pp. 383-385

flavilypeus (Viereck). Valid name.

Limneria sericea Provancher, 1875. Preocc.

sericea (Provancher). Preocc. in *Olesicampe* by Holmgren, 1854. Replaced by former synonym **flavilypeus** Viereck, q. v.

Tribe CREMASTINI

Genus ZALEPTOPYGUS Viereck, pp. 388-390

retiniae (Cresson). Host: *Tetralopha robustella* Zell.

Genus PSEUDERIPTERNUS Viereck, p. 390

elongatus (Davis).

**Pseuderipternus gracilipes* Cushman, 1917. U. S. Natl. Mus. Proc. 53: 506, 507. ♀ ♂.

Genus CREMASTUS Gravenhorst, pp. 390-392

forbesi Weed.

Cremastus tortricidis Cushman. N. syn., *teste* L. M. Walkley after study of abundant material.

longigenalis Cushman.

**Temelucha scutellata* Ashmead MS, in Slosson, 1900. Ent. News 11: 320. Validated in syn. by Cushman, 1922, U. S. Natl. Mus. Proc. 61 (art.8): 10.

platynotae Cushman. Change host name to: *Platynota stultana* (Walsm.)

tortricidis Cushman. N. syn. of *forbesi* Weed, *q. v.*

Tribe TERSILOCHINI**Genus LEPTOPYGUS Foerster, p. 393**

borealis (Provancher).

**Leptopygus monticola* Ashmead MS, in Slosson, 1897. Ent. News 8: 237. Validated in syn. by Cushman, 1922, U. S. Natl. Mus. Proc. 61 (art.8): 17.

***Genus LUCHATEMA Walkley**

Luchatema Walkley, 1956. Ent. News 67: 154.

Type: *Luchatema baldufi* Walkley. By monotypy and orig. desig.

Place in Tersilochini on p. 394, after *Tersilochus* Holmgren.

**baldufi* Walkley. Wis., Minn., S. Dak., Wyo., Sask., Iowa, Ill., N. Y., Mass. Host: *Rhynchites bicolor* (F.).

Luchatema baldufi Walkley, 1956. Ent. News 67: 154. ♀ ♂.

Tribe ANOMALINI**Genus ANOMALON Panzer, p. 395**

ejuncidum Say. Host: *Leichenium caniculatum variegatum* Klug.

Genus OPHIONELLUS Westwood, pp. 395-396

virginiensis (Cresson). Ind.

Genus GRAVENHORSTIA Boie, pp. 397-398

alaskensis (Ashmead). Alaska. Transf. to *Agrypus* Foerster.

luteopectus (North). Change from *luteopecta*.

magniceps (Cresson). Ariz. Host: *Anisota osleri* Roths.

provancheri (Dalla Torre). Transf. to *Agrypus* Foerster.

***Genus AGRYPON Foerster**

Agrypus Foerster, 1860. Naturh. Ver Rheinlande Verh. 17:151.

Type: *Ophion flaveolatus* Gravenhorst. Desig. by Viereck, 1914.

Place in Gravenhorstiina on p. 398, before *Labrorychus* Foerster.

alaskensis (Ashmead), n. comb. Alaska. Transf. from *Gravenhorstia* Boie, p. 397.

provancheri (Dalla Torre), n. comb. Transf. from *Gravenhorstia* Boie, p. 397.

Genus LABRORYCHUS Foerster, p. 398

chlamidatus (Provancher).

**Atrometus flavifrons* Ashmead MS, in Slosson, 1902. Ent. News 13: 6. Validated in syn. by Cushman, 1922, U. S. Natl. Mus. 61 (art. 8): 16.

Genus THERION Curtis, pp. 399-400

californicum (Cresson). Preocc. in *Anomalon* by Cresson, 1878 (p. 366).
Replaced by former synonym, *longipes* Provancher, q. v.

longipes (Provancher). Valid name. Host: *Heliothis* sp.
Anomalon californicum Cresson, 1878 (p. 367). Preocc.

morio (Fabricius).

**Anomalon nigripennis* Provancher, 1874. Nat. Canad. 6:173. ♀ ♂.

Tribe OPHIONINI**Genus OPHION Fabricius, p. 401**

ancyloneura Cameron. Host: *Prodenia eridania* (Cram.)

bifoveolatus Brullé.

Ophion nigrivarius Provancher. Change to *nigrovarius*, and add p. 103 to reference.

**epallidus* Walkley, n. name.

Ophion bilineatus var. *pallida* Cockerell, 1889. Preocc.

pallidus Cockerell. Preocc. in *Ophion* by Taschenberg, 1875. Replaced by *epallidus* n. name, q. v.

Genus SIMOPHION Cushman, p. 402

excarinatus Cushman. N. Mex., Tex.

Genus ENICOSPILUS Stephens, pp. 403-405

cubitalis (Morley). Preocc. in *Allocamptus* by Szépligeti, 1906. Replaced by *excubitalis* n. name, q. v.

**excubitalis* Walkley, n. name.

Allocamptus cubitalis Morley, 1912. Preocc.

Subfamily MESOCHORINAE**Genus ASTIPHROMMA Foerster, p. 405**

pectorale Ashmead. Wis.

Alphabetic List of Unplaced Species,
pp. 407-409

**Anomalon exrufum* Walkley, n. name.

Anomalon rufum Provancher, 1874. Preocc.

Anomalon rufum Provancher. Preocc. in *Anomalon* by Holmgren, 1857.
Replaced by *exrufum* n. name, q. v.

Cremastus piceus Cresson. Misspelled "*Crematus*" in Catalog.

**Tryphon exobscurus* Walkley, n. name.

Stilpnus obscurus Cresson, 1865. Preocc.

Tryphon obscurus (Cresson). Preocc. in *Tryphon* by Stephens, 1835. Replaced by *exobscurus* n. name, q. v.

Superfamily CHALCIDOIDEA**Family MYMARIDAE****Genus OOCOTONUS Haliday, pp. 410-411**

americanus Girault. In reference, change Ent. News 26: 67 to 27:69.

Genus LYMAENON Haliday**(= *Gonatocerus* of Catalog, pp. 411-413)**

Gonatocerus Nees is a member of the Chalcididae, *teste* Kryger, 1934. Ent. Meddel. 18 (5): 503, 505; it has no known North American spp. Next available name is *Lymaenon* Haliday. All species listed in Catalog should be n. comb.

koebelei (Perkins). U. S.

latipennis (Girault). N. Y., Pa.; delete "? Canada."

mexicanus (Perkins). Tex., Calif.

novifasciatus (Girault). Calif.

ovicenatus (Leonard and Crosby). Host: Delete "Cicadellid eggs in sugar cane."

rivalis (Girault). Host: Cicadellid eggs in sugar cane.

Genus PARALLELAPTERA Enoch, p. 414

rex (Girault). Minn.

Genus PATASSON Walker, pp. 414-415

Revision: Doutt, 1949. Pan-Pacific Ent. 25: 155-160 (*Anaphoidea*).

**brunnea* (Doutt), n. comb. Calif.

Anaphoidea brunnea Doutt, 1949. Pan-Pacific Ent. 25: 159, 160. ♀.

**conferta* (Doutt), n. comb. Calif.

Anaphoidea conferta Doutt, 1949. Pan-Pacific Ent. 25: 155, 160. ♀.

**gerrisophaga* (Doutt), n. comb. Calif. Host: Eggs of *Gerris* sp.

Anaphoidea gerrisophaga Doutt, 1949. Pan-Pacific Ent. 25: 156, 160. ♀.

**longiclava* (Doutt), n. comb. Calif.

Anaphoidea longiclava Doutt, 1949. Pan-Pacific Ent. 25: 158. ♀.

Genus ANAGRUS Haliday, p. 415

delicatus Dozier. Calif.

Genus MYMAR Curtis, pp. 415-416

Taxonomy: Soyka, 1955. München. Ent. Gesell. Mitt. 44/45: 460-461, 475.

Genus ACMOPOLYNEMA Ogloblin, p. 416

bifasciatipennis *bifasciatipennis* (Girault). Calif.

Genus POLYNEMA Haliday, pp. 416-418

picipes Girault. Calif.

Family TRICHOGRAMMATIDAE**Genus TRICHOGRAMMA Westwood, pp. 419-421**

minutum Riley.

Trichogramma minutissimum Packard. Change to *Trichogramma m.*

Genus MEGAPHRAGMA Timberlake, p. 422

mymaripenne Timberlake; correct spelling of *mymaripennis* of Catalog, p. 422. Calif. Delete (!) in ref.

mymaripennis of Catalog; misspelling of *mymaripenne* Timberlake.

Genus OLIGOSITA Haliday, pp. 422-423

sanguinea sanguinea (Girault). Fla., Calif.

Genus UFENS Girault, p. 423

spiritus spiritus Girault. Ga., Fla., La.

Family EULOPHIDAE**Genus SYMPIESIS Foerster, pp. 426-428**

guttatipennis Girault. Wyo.

nigrifemora Ashmead. Idaho

viridula (Thomson). Ill., Wis., Iowa, Minn., Nebr., Colo. Wyo.; Europe.

Genus SOLENOTUS Foerster, p. 429

carlylei (Girault). Syn. of *intermedius* (Girault).

intermedius (Girault). Ariz., Calif.

Diaulinus carlylei Girault. N. syn., types examined by B. D. Burks.

Genus EULOPHUS Geoffroy, p. 430

Delete *Eulophus* Geoffroy, 1762. Hist. Abrégé des Insectes. This publication not available for nomenclatorial purposes, *teste* Opinion 228, Internatl. Comn. Zool. Nomencl., April 1954.

***Genus EULOPHUS Olivier**

Eulophus Olivier, 1791. Encycl. Méth., v. 6, p. 454.

Type: *Ichneumon ramicornis* Fabricius. By monotypy.

Replaces *Eulophus* Geoffroy, pp. 430-431.

nebulosus (Provancher). Wis.

Genus DAHLBOMINUS Hincks, p. 431

fuscipennis (Zetterstedt). Wis. Host: *Neodiprion swainei* Midd.

***Genus CARDIOGASTER Motschulsky**

(= *Euderomphale* of Catalog, p. 432)

Cardiogaster Motschulsky, 1863. Soc. Nat. Moscou Bul. 36: 72.

Type: *Cardiogaster fusciventris* Motschulsky. By monotypy.

**Pteroptrix* Howard, 1895, *not* Westwood. U.S. Dept. Agr., Div. Ent. Tech. Ser. 1: 17. No. syn.

Type: *Pteroptrix flavimedia* (Howard). By monotypy.

Euderomphale Girault, 1916. N. syn.

Aleurodiphagus Nowicki, 1929. N. syn.

Type: *Pteroptrix flavimedia* (Howard). Desig. in Catalog; *Aleurodiphagus chelidonii* Kollar, orig. desig.; is a ms. name.

***Genus PTEROPTRIX Westwood**

(= *Archenomus* of Catalog, p. 432)

Pteroptrix Westwood, 1833. London, Edinb., and Dublin Phil. Mag. and Jour. Sci. (ser. 3) 3: 344.

Type: *Pteroptrix dimidiatus* Westwood. By monotypy.

**Pterothrix* Nees, 1834. Hym. Ichn. Affin. Monog., v. 2, p. 409. Emend.

**Gyrolasia* Foerster, 1856. Hym. Stud., v. 2, p. 145. N. name for *Pterothrix*, unnecessarily proposed.

Archenomus Howard, 1898. (Syn. by Mercet, 1928. Real. Soc. Espan. Hist. Nat. 28: 507.)

**Pteroptrichoides* Fullaway, 1913. Hawaii. Agr. Expt. Sta. Ann. Rpt. 1912, p. 27.

Type: *Pteroptrichoides perkinsi* Fullaway. By monotypy and orig. desig.

**Pseudopteroptrix* Fullaway, 1918. Hawaii. Ent. Soc. Proc. 3: 464.

Type: *Pseudopteroptrix imitatrix* Fullaway. By monotypy.

bicolor Howard. Syn. of *dimidiatus* Westwood.

**dimidiatus* Westwood. Ga., Ohio; Cosmopolitan. Hosts: *Aspidiotus* sp., *Ferrisiana* sp.

Pteroptrix dimidiatus Westwood, 1833.

Archenomus bicolor Howard, 1898.

*Genus **MARLATTIELLA** Howard

Marlattiella Howard, 1907. U. S. Dept. Agr. Div. Ent. Tech. Ser. 12: 73.

Type: *Marlattiella prima* Howard. By monotypy and orig. desig.

Insert in Aphelininae following *Marietta* Motschulsky, p. 433.

**prima* Howard. Md.; China. Host: *Leucaspis japonica* Ckll.

Marlattiella prima Howard, 1907. U. S. Dept. Agr. Bur. Ent. Tech. Ser. 12: 73. ♀.

Genus **APHYTI** Howard, pp. 433-434

Revision: Compere, 1955. Calif. Univ. Pubs., Ent. 10: 271-320.

**citrinus* Compere. Calif.; ?Japan. Host: *Aonidiella citrina* (Coq.)

Aphytis citrinus Compere, 1955. Calif. Univ. Pubs., Ent. 10: 309, 312. ♀.

**dealbatus* Compere. Calif. Host: *Lepidosaphes ulmi* (L.)

Aphytis dealbatus Compere, 1955. Calif. Univ. Pubs., Ent. 10: 278, 286. ♀.

**lepidosaphes* Compere. Calif.; China. Host: *Lepidosaphes beckii* (Newm.).

Aphytis lepidosaphes Compere, 1955. Calif. Univ. Pubs., Ent. 10: 279, 307. ♂ ♀.

**lingnanensis* Compere. Tex., Calif. Host: *Aonidiella aurantii* (Mask.).

Aphytis lingnanensis Compere, 1955. Calif. Univ. Pubs., Ent. 10: 279, 303. ♂ ♀.

**maculicornis* (Masi). Calif.; Cosmopolitan. Host: *Parlatoria oleae* (Colvée).

Aphelinus maculicornis Masi, 1911. Lab. Zool. Gen. e Agr. Portici Bol. 5: 158. ♀.

**melanostictus* Compere. Calif. Host: *Aspidiotus juglans-regiae* Comst.

Aphytis melanostictus Compere, 1955. Calif. Univ. Pubs., Ent. 10: 278, 287. ♂ ♀.

proclia (Walker).

Taxonomy: Compere, 1955. Calif. Univ. Pubs., Ent. 10: 289 (*diaspidis*).

Genus **APHELINUS** Dalman, pp. 434-435

nigritus Howard. Ariz., Calif.

Genus **PROSPALTELLA** Ashmead

(= *Prospaltella* Howard of Catalog, pp. 437-438)

**brasiliensis* (Hempel). Fla.; Haiti, Brazil. Host: *Aleurothrixus floccosus* (Mask.)

Prospalta brasiliensis Hempel, 1904. Bol. da Agr. (ser. 5) 1: 20. ♀.

**elongata* Dozier. La., Tex., Calif. Host: *Lepidosaphes gloverii* (Pack.).

Prospaltella elongata Dozier, 1937. Puerto Rico Univ. Jour. Agr. 21: 128. ♀.

diaspidicola Silvestri. Tex. Change orig. ref. from *Prospalta diaspidicola* Silvestri, 1909 to *Prospaltella d.*

Genus **ASPIDIOTIPHAGUS** Howard, pp. 438-439

citrinus citrinus (Craw).

**Prospaltoides howardi* Brèthes, 1914. Nunquam Otiosus, Buenos Aires, p. la. (Syn. in genotype cit. of *Prospaltoides* in Catalog.)

**howardi* Brèthes. Syn. of *citrinus citrinus* (Craw).

Genus COCCOPHAGUS Westwood, pp. 439-441

**eleaphilus* Silvestri. Calif.; Eritrea. Host: *Saissetia oleae* (Bern.).

Coccophagus eleaphilus Silvestri, 1915. Lab. Zool. Gen. e Agr. Portici Bol. 9: 318. ♂ ♀.

**eritreaensis* Compere. Calif.; Eritrea. Hosts: *Coccus hesperidum* L., *Saissetia oleae* (Bern.).

Coccophagus eritreaensis Compere, 1931. Calif. Univ. Pubs., Ent. 5: 254. ♂ ♀.

gossypariae Gahan Syn. of *insidiator* (Dalman).

**hawaiiensis* Timberlake. Calif.; Hawaii, Japan, Hosts: *Coccus pseudomagnoliarum* (Kuwana), *Pulvinaria* sp., *Lecanium* sp., *Saissetia nigra* Niet.

Coccophagus hawaiiensis Timberlake, 1926. Hawaii. Ent. Soc. Proc. 6: 315. ♀.

**insidiator* (Dalman). N. B., N. Y., Mass., Colo.; Europe. Host: *Gossyparia spuria* (Mod.)

Entedon insidiator Dalman, 1825. Svenska Vetensk. Akad. Handl. 46: 371.

Coccophagus gossypariae Gahan, 1927. N. syn. (based on comparison of type with European material of *insidiator* by C. F. W. Muesebeck and B. D. Burks).

**japonicus* Compere. Calif.; Japan. Hosts: *Coccus pseudomagnoliarum* (Kuwana), *Ceroplastes* sp., *Pulvinaria* sp.

Coccophagus japonicus Compere, 1924. So. Calif. Acad. Sci. Bul. 23: 122. ♀.

**quaestor* Girault. Wis., Ont.; Mexico. Host: *Toumeyella numismaticum* (P. and M.).

Coccophagus quaestor Girault, 1917. Descr. Stellarum Nov., p. 2.

**yoshidae* Nakayama. Calif.; Japan. Hosts: *Coccus pseudomagnoliarum* (Kuwana), *C. hesperidum* L.

Coccophagus yoshidae Nakayama, 1921. Philippine Jour. Sci. 18: 98. ♀.

Genus CERATONEURA Ashmead, pp. 441-442

**petiolata* Ashmead. Fla.; West Indies, Mexico, Venezuela.

Ceratoneura petiolata Ashmead, 1894. Linn. Soc. London, Jour. Zool. 25: 179. ♀ ♂.

Genus GALEOPSOMOPSIS Girault, p. 443

squamosa Girault. Change Calif. to Kans.

Genus THYMUS Girault

(= *Thymiscus* of Catalog, p. 443)

Thymiscus Ghesquière, 1946. N. name unnecessarily proposed.

Genus TETRASTICHUS Walker, pp. 443-450

**Anellaria* Bakkendorf, 1934(1933). Ent. Meddel. 19: 8.

Type: *Anellaria conomeli* Bakkendorf. By monotypy.

Taxonomy: Bakkendorf, 1953. Ent. Meddel. 26: 564, 570.

carpatius Burks. Syn. of *tineivorus* Ferrière.

chrysopae (Crawford). Minn.

floridiae (Girault). Transf. to *Aprostocetus*, pp. 450-451.

hagenowii (Ratzeburg).

Biology: Roth and Willis, 1954. Amer. Ent. Soc. Trans. 80: 53-72.—
Edmunds, 1955. Ent. Soc. Amer. Ann. 48: 210-213.

ichthyus of Catalog, p. 446; misspelling of *ichthynus* Burks.

ichthynus Burks; correct spelling of *ichthyus* of Catalog p. 446.

nebraskensis (Girault). S. Car.

oncideridis Gahan. Transf. to *Aprostocetus*, pp. 450-451.

phegus Burks. Ont.

**sokolowskii* Kurdjumov. Ont., N. Y.; Europe, India. Host: *Plutella maculipennis* (Curt.).

Tetrastichus sokolowskii Kurdjumov, 1912. Russ. Ent. Obozr. (Rev. Russe d'Ent.) 12: 238. ♂ ♀.

strobilus Burks. Minn., Idaho.

silvaticus Gahan. Maine, Mich., Wash.

**tineivorus* Ferrière. N. H., Mass., Conn., Md., Ohio, Mo., Calif.; Europe. Hosts: *Tineola bisselliella* (Hum.), *Tinea fuscipunctella* Haw., *T. pellionella* (L.), *Apanteles carpatus* (Say).

Tetrastichus tineivorus Ferrière, 1941. Schweiz. Ent. Gesell. Mitt. 18: 376. ♂ ♀.

Tetrastichus carpatus Burks, 1943.

Taxonomy: Gahan, 1951. Canad. Ent. 83: 171.

Biology: Back, 1945. Ent. Soc. Wash. Proc. 47: 182-183 (*carpatus*).

trisulcatus Provancher. Fla.

Genus APROSTOCETUS Westwood, pp. 450-451

floridae (Girault), n. comb. Fla. Transf. from *Tetrastichus*, p. 446.

oncideridis (Gahan), n. comb. W. Va. Host: *Oncideres cingulatus* (Say). Transf. from *Tetrastichus*, p. 448.

Genus SYNTOMOSPHYRUM Foerster, pp. 451-452

Revision: Burks, 1952. Ent. Soc. Wash. Proc. 54: 258-264.

**blattae* Burks. W. Va., N. C., Ohio. Host: Oothecae of *Parcoblatta* sp.

Syntomosphyrum blattae Burks, 1952. Ent. Soc. Wash. Proc. 54: 263. ♂ ♀.

esurus (Riley). Delete *Chilocorus similis* (Rossi) from host list.

Genus MELITTOBIA Westwood, p. 452

**Philopison* Cameron, 1908. Deut. Ent. Ztschr., p. 560.

Type: *Philopison clavicornis* Cameron. My monotypy.

**Sphecophagus* Brèthes, 1910. Mus. Nac. Hist. Nat., Buenos Aires 20: 208.

Type: *Sphecophagus sceliphronidis* Brèthes. By monotypy.

**Sphecophilus* Brèthes, 1910. Mus. Nac. Hist. Nat. Buenos Aires 20: 310. N. name, unnecessarily proposed for *Sphecophagus*.

Taxonomy: DeSantis, 1949. La Plata Univ. Nac. Inst. Mus. Notas (Zool.) 14: 276.

chalybii Ashmead. Utah.

gerardi Hickok. Syn. of *megachilis* (Packard).

megachilis (Packard).

**Pteromalus gerardi* Hickok, 1875. Poughkeepsie Soc. Nat. Hist. Proc. 1: 131. ♂ ♀. N. syn., *teste* B. D. Burks, on basis of orig. descr.

Genus CRATAEPUS Foerster, p. 452

fletcheri Ashmead. Syn. of *marbis* Walker.

**marbis* (Walker). Ont.; Europe. Hosts: *Orellia florescentiae* (L.), dipterous larvae in *Cirsium arvense*, *Terellia serratulæ* (L.)

Cirrospilus marbis Walker, 1839. Monog. Chalc., v. 1, p. 330. ♀.

**Crataepus aquisgranensis* Foerster, 1878. Naturh. Ver. Rheinlande Verh. 35: 62. ♀.

Crataepus Fletcherii Ashmead, 1892.

Taxonomy and Biology: Gradwell, 1953. Ent. Monthly Mag. 89: 73-76.

Genus MIOTROPIS Thomson, pp. 454-455

Taxonomy: Girault, 1919. Brooklyn Ent. Soc. Bul. 11: 111-112 (key to spp.).

Genus ELACHERTUS Spinola, pp. 455-456

coxalis Howard. Wis.

proteoteratis (Howard). Ariz., Calif.

Genus ZAGRAMMOSOMA Ashmead, pp. 459-460

multilineatum multilineatum (Ashmead).

**Hippocephalus nubilineatus* (!) Hopkins, 1893. W. Va. Agr. Expt. Sta. Bul. 32, p. 227.

Genus CLOSTEROCERUS Westwood, p. 461

tricinctus (Ashmead). Wis.

**trifasciatus* Westwood. Maine, Minn., S. Dak., Calif.; Europe.

Closterocerus trifasciatus Westwood, 1833. Mag. Nat. Hist. 6: 420.

***Genus BURKSIA Fullaway**

Burksia Fullaway, 1955. Hawaii. Ent. Soc. Proc. 15: 409.

Type: *Burksia viridimaculata* Fullaway. By monotypy and orig. desig.

Insert in Entedontinae after *Euderus* Haliday, p. 462.

**viridimaculata* Fullaway. Fla.; Hawaii. Host: Assoc. with armyworm larvae in Bermuda grass.

Burksia viridimaculata Fullaway, 1955. Hawaii. Ent. Soc. Proc. 15: 410. ♀.

Genus CHRYSOCHARIS Foerster, pp. 463-464

orientalis (Girault). Mass. Host: *Phytomyza* sp. leaf miner on *Ilex glabra*.

Genus HOPLOCREPIS Ashmead

Transf. from Unplaced genera, p. 593, and insert in Entedontinae following *Chrysocharomyia* Girault, p. 465.

**albiclavus* Ashmead. Mass., Fla.; West Indies.

Hoplocrepis albiclavus Ashmead, 1890. Ent. Soc. Wash. Proc. 1: 236. ♀.

Genus ACHRYSOCHARIS Girault, p. 465

divina Girault. In ref., change Ent. News 27 to 28.

Genus HORISMENUS Walker, pp. 467-468

floridanus (Ashmead). N. J., Va., Ind., Ill., Kans., Tex.

missouriensis (Ashmead). N. Y., S. Dak., Okla. Host: *Acanthoscelides horni* (Pic).

***Genus PEDIOBIUS Walker**

(= *Pleurotropis* of Catalog, pp. 468-470)

Pediobius Walker, 1846. Ann. Mag. Nat. Hist. 17: 184.

Type: *Entedon (Pediobius) imbreus* Walker. Desig. by Ashmead, 1904, p. 384, not p. 344.

Pleurotropis Foerster, 1856. Syn. of *Pediobius* Walker, *teste* Ferrière, 1953; generic syn. under *Pleurotropis* in Catalog transf. to *Pediobius*, and all spp. listed in Catalog under *Pleurotropis* become n. comb.

Pseudacrias Girault, 1913. N. syn.

Pseudacriasoides Girault, 1917. N. syn.

Epipleurotropis Girault, 1917. N. syn.

Taxonomy: Ferrière, 1953. Ist. Ent. R. Univ. Bologna Bol. 19: 400.

aphidiphagus (Ashmead), n. comb. Que., Fla., Ind., Ill., Kans. Hosts: Tineid larvae in oak apple gall; reared from galls of *Amphibolips inanis* O. S. and *A. spongifica* (O. S.); ? *Macrosiphum solanifolii* (Ashm.). Transf. from **Entedon**, p. 470.

Entedon aphidiphagus Ashmead, 1887.

Asecodes quercicola Ashmead, 1888.

Taxonomy: Gahan, 1951. Canad. Ent. 83: 170.

quercicola (Ashmead). Syn. of **aphidiphagus** (Ashmead).

williamsoni (Girault). Utah. Host: *Physocephala texana* (Williston) in *Bombus* nests.

Genus ENTEDON Dalman, p. 470

aphidiphagus Ashmead. Transf. to genus **Pediobius** Walker (= *Pleurotropis* of Catalog), p. 468.

leucogramma (Ratzeburg). Ohio, Iowa, Calif.

Family ELASMIDAE

Genus ELASMUS Westwood, pp. 471-472

meteorii Ashmead. Iowa. Host: *Meteorius* sp., par. on *Dioryctria disclusa* Hein.

setosiscutellatus Crawford; correct spelling of *setosiscutellum* of Catalog, p. 472.

Family THYSANIDAE

Genus THYSANUS Walker, pp. 472-474

dactylopii (Ashmead). Change D. C. to Calif.

elongatus (Girault).

Taxonomy: Novitzky, 1954. Univ. Milano, Bol. di Zool. Agr. e Bach. 20: 207 (*Signiphorina*).

***fasciatus** (Girault). Tex., Calif.; Mexico, Cuba, Panama. Hosts: Bred from *Saissetia nigra* (Nietn.), *Melanaspis lilacina* (Ckll.), and *Coccus viridis* Green; prob. secondary par.

Signiphora fasciata Girault, 1913. U. S. Natl. Mus. Proc. 45: 219. ♀.

niger (Ashmead), Fla.

Family EUTRICHOSOMATIDAE

Genus EUTRICHOSOMA Ashmead, p. 474

albipes Crawford. Ga.

mirabile Ashmead. Md., D. C., Kans., Okla., N. Mex., Idaho.

Family ENCYRTIDAE

Genus ANAGYRUS Howard, pp. 475-476

***antoninae** Timberlake. Fla., Tex.; Hawaii, Japan. Host: *Antonina graminis* (Mask.).

Anagyrus (Epidinocarsis) antoninae Timberlake, 1920. Hawaii. Ent. Soc. Proc. 4: 409-413. ♂ ♀.

Biology: Riherd, 1950. Fla. Ent. 33: 18-22.—Riherd, 1951. Jour. Econ. Ent. 44: 622-623.

***smithi** Doutt. Calif. Host: *Spilococcus implicatus* Ferris.

Anagyrus smithi Doutt, 1952. Hawaii Ent. Soc. Proc. 14: 401. ♂ ♀.

yuccae (Coquillett). Calif.

***Genus ANATHRIX Burks**

Anathrix Burks, 1952. N. Y. Ent. Soc. Jour. 60: 179.

Type: *Anathrix argyrus* Burks. By monotypy and orig. desig.

Insert in Encyrtinae following *Anagyrus* Howard, p. 476.

**argyrus* Burks. Que., Va., Tex. Host: *Ferrisiana virgata* (Ckll.)

Anathrix argyrus Burks, 1952. N. Y. Ent. Soc. Jour. 60: 181. ♀.

Genus COMPERIA Gomes, p. 476

merceti (Compere). N. J. south to Fla., west to Ill., Kans., and Ariz.; West Indies, Central and South Amer., Hawaii. Host: Delete *Blattella germanica* (L.).

Biology: Lawson, 1954. Kans. Ent. Soc. Jour. 27: 128-142.

Genus ANUSIA Foerster, P. 477

xerophila Brues. Transf. to *Epanusia* Girault, p. 504.

Genus PARAPSILOPHRYS Howard, p. 481

gelechia Howard. Wis., Minn., Utah.

Genus COPIDOSOMA Ratzeburg, pp. 481-483

Arrenoclavus Doutt, 1948; correct spelling of *Arrhenoclavus* of Catalog, p. 481.

Arrhenoclavus of Catalog, p. 481; misspelling of *Arrenoclavus* Doutt, 1948.

Berecynthiscus Ghesquière, 1946; correct spelling of *Berecynthiscus* of Catalog, p. 481.

Berecynthiscus of Catalog, p. 481; misspelling of *Berecynthiscus* Ghesquière, 1946.

bakeri bakeri (Howard). Host: Change *Sidenia devastator* (Bruce) to *Cymodes d.*

Genus CERCHYSIUS Westwood, p. 483

hubbardii Ashmead. Wash.

marylandicus Girault. Wis.

Genus CHALCASPIUS Howard, p. 484

phenacocci (Ashmead). Md., Fla., Iowa, Mo., Idaho, Utah.

Genus BOTHRIOTHORAX Ratzeburg, pp. 484-485

rotundiformis Howard. Colo., Wash.

Genus PRIONOMITUS Mayr, p. 487

mitratus (Dalman). Wash.

Genus PSYLLAEPHAGUS Ashmead, pp. 487-488

pachypsyllae (Howard). Ohio, Tex., Idaho.

Genus MICROTERYS Thomson, pp. 488-489

claripennis Compere. Pa., N. C.

xanthopsis Compere. Utah, Ariz.

Genus EPIENCYRTUS Ashmead, p. 489

artaceae (Howard). Host: Ophionine ichneumonid.

Genus APHYCUS Mayr, pp. 492-495

argyrocomus (Compere). In ref. change 8: 8 to 8: 10.

johnsoni Howard. Va., N. C. Host: *Coccus hesperidum* L.

kingi Timberlake. Change Kans. to Mass.; add Ohio.

lounsburyi Howard. S. and Cent. Africa, S. Amer., Australia; delete Mass.
Host: Delete *Cheiloneurus inimicus* Compere.

***terryi** Fullaway. Ga., Fla., La.; Hawaii. Host: *Pseudococcus boninsis* (Kuwana).

Aphycus terryi Fullaway, 1913. Hawaii. Ent. Soc. Proc. 2: 281. ♂ ♀.

Genus CHEILONEURUS Westwood, pp. 497-498

Revision: Change Gahan, 1913 to 1914.

***pulvinariae** Dozier. D. C., N. C., Fla.; Puerto Rico. Host: *Aphycus flavus*
How. par. on *Pulvinaria* sp.

Cheiloneurus pulvinariae Dozier, 1927 (1925). Puerto Rico Dept. Agr.
Jour. 9: 363. ♂ ♀.

***Genus APTERENCYRTUS Ashmead**

(= *Chiloneurinus* of Catalog, p. 499)

Apterencyrtus Ashmead, 1905. Canad. Ent. 37: 5.

Type: (*Apterencyrtus pulchricornis* Ashmead) = *Chiloneurus microphagus* Mayr. By monotypy.

Chiloneurinus Mercet, 1921.

Taxonomy: Gahan, 1951. Canad. Ent. 83: 171.

microphagus (Mayr.) Fla.

***Genus DIVERSINERVUS Silvestri**

Diversinervus Silvestri, 1915. Portici R. Scuola Super. di Agr., Lab.
Zool. Gen. e Agr. Bol. 9: 301.

Type: *Diversinervus elegans* Silvestri. By monotypy and orig. desig.

**Cheiloneuroides* Girault, 1915. Queensland Mus. Mem. 4: 96.

Type: (*Cheiloneuroides bicristatus* Girault) = *Diversinervus elegans* Silvestri. By monotypy and orig. desig.

Revisions: Compere, 1931. Calif. Univ. Pubs., Ent. 4: 233-245.—Compere, 1938. Bul. Ent. Res. 29: 321-323.

Place in Encyrtinae after *Chrysopophagus* Ashmead, p. 499.

**elegans* Silvestri. Calif.; Australia, Africa. Host: *Saissetia oleae* (Bern.).

Diversinervus elegans Silvestri, 1915. Portici R. Scuola Super. di Agr., Lab. Zool. Gen. e Agr. Bol. 9: 304. ♂ ♀.

**Cheiloneuroides bicristatus* Girault, 1915. Queensland Mus. Mem. 4: 96. ♀.

**Diversinervus meridionalis* Compere, 1931. Univ. Calif. Pubs., Ent. 5: 237. ♂ ♀.

Biology: Compere, 1931. Calif. Univ. Pubs., Ent. 5: 241-245, 249.

Genus ANABROLEPIS Timberlake, p. 500

Anabrolepis Timberlake, change 1920 to 1921. In ref., change 4: 131 to 4: 431.

Genus ADELENCYRTUS Ashmead, p. 500

**odonaspidis* Fullaway. Fla., La., Tex.; Mexico, Hawaii, Japan. Hosts: *Odonaspis* sp., ? *Antonina graminis* (Mask.).

Adelencyrtus odonaspidis Fullaway, 1913. Hawaii. Agr. Expt. Sta. Ann. Rpt. 1912, p. 26. ♀.

Genus CHRYSOPLATYCERUS Ashmead, p. 500

**howardii* Ashmead. Fla.; Mexico. Host: *Pseudococcus* sp.

Chrysoplaticerus howardii Ashmead, 1900. U. S. Natl. Mus. Proc. 22: 405. ♀.

splendens (Howard). Fla.

Genus ANICETUS Howard, p. 500

annulatus Timberlake. Host: *Coccus hesperidum* L.

***Genus TROPIDOPHRYNE Compere**

Tropidophryne Compere, 1931. Calif. Univ. Pubs., Ent. 5: 269.

Type: *Tropidophryne africana* Compere. By monotypy and orig. desig.

Revision: Compere, 1939. Bul. Ent. Res. 30: 13-14.

Place in Encyrtinae after *Coccobius* Ratzeburg, p. 501.

***melvillei** Compere. Calif.; Africa. Hosts: *Pseudococcus citri* (Risso), *P. sp.*

Tropidophryne melvillei Compere, 1939. Bul. Ent. Res. 30: 15. ♀.

Taxonomy: Doutt and Smith, 1950. Canad. Ent. 82: 165. ♂ ♀ intersex.

Genus EPANUSIA Girault, p. 504

xerophila (Brues), n. comb. Transf. from *Anusia* Foerster, p. 477.

Family EUPELMIDAE**Genus EUPELMUS Dalman, pp. 508-511**

cleri Ashmead. Hosts: delete "? *Odontaulacus abdominalis* Cress.," add ? *Aulacostethus rufitarsis* (Cress.).

coccidis Girault. Tex.

cushmani (Crawford). West Indies, Cent. and So. Amer., Hawaii. Host: *Anthonomus vestitus* Boh.

***Cerambycobius townsendi** Crawford, 1912. U. S. Natl. Mus. Proc. 43: 166. ♂ ♀.

Taxonomy: Gahan, 1951. Canad. Ent. 83: 172.

quercus Girault. Change Girault to Ashmead.

townsendi (Crawford). Syn. of **cushmani** (Crawford).

Genus ARACHNOPHAGA Ashmead, pp. 511-512

costalis Gahan. Delete N. J.

Genus ANASTATUS Motschulsky, pp. 513-514

blattidarum Ferrière. Md. south to Fla., west to Ill. and Kans.

***floridanus** Roth and Willis. Fla. Host: Oothecae of *Eurycotis floridana* (Walk.)

Anastatus floridanus Roth and Willis, 1954. Amer. Ent. Soc. Trans. 80: 31. ♂ ♀.

reduvii (Howard). Host: *Anisota* sp.

Genus ZAISCHNOPSIS Ashmead, p. 514

schwarzii (Ashmead).

Taxonomy: Gahan, 1951. Canad. Ent. 83: 172.

Family EUCHARITIDAE**Genus PSEUDOMETAGEA Ashmead, p. 515**

schwarzii (Ashmead). Que., Mass., Ind., Nebr.

Family PERILAMPIDAE**Genus EUPERILAMPUS Walker, p. 516**

opacus Ashmead. Transf. to *Heimbra* Cameron in Eurytomidae, p. 579.

Genus PERILAMPUS Latreille, pp. 517-519*capitatus* Smulyan. Syn. of *tristis* Mayr.*carinifrons* Crawford. Wis.*tristis* Mayr. Ont., N. Y. to Va., west to Mich. and Ky.; Europe.*Perilampus capitatus* Smulyan (syn. by Steffan, 1952. Soc. Ent. de France Bul. 57: 69, 72).**Family AGAONTIDAE**

Change to Family AGAONIDAE.

Genus BLASTOPHAGUS Gravenhorst, p. 519Delete *Kradibia* Saunders, 1883 from syn.; valid, extralimital genus, *teste* E. F. Riek in litt.**Family TORYMIDAE****Genus TORYMUS Dalman, pp. 520-527***Callimome* Spinola, 1811. Suppressed by Internatl. Comn. Zool. Nomencl., 1936, not 1944.*Torymus* Dalman, 1820.Type: *Ichneumon bedeguaris* Linnaeus. Desig. by Internatl. Comn. Zool. Nomencl., 1936, not 1944.*capitis* (Huber). Wis. Correct spelling of *capite* of Catalog, p. 522.*dryophantae* (Ashmead). Correct spelling of *dryophanta* of Catalog, p. 522.*ferrugineipes* (Huber). Delete Fla.; add Calif.**festivus* Hobbs. Oreg. Host: *Dasyneura* sp. in seeds of *Thuja* and *Chamaecyparis*.*Torymus festivus* Hobbs, 1950. Pan-Pacific Ent. 26: 173. ♂ ♀.*tubularis* (Huber); correct spelling of *tubalaris* of Catalog, p. 526.**vesiculi* Moser. Ohio. Host: *Pachypsylla celtidis-vesiculum* Riley gall on *Celtis occidentalis*.*Torymus vesiculi* Moser, 1956. Kans. Ent. Soc. Jour. 29: 58. ♀ ♂.**Genus LIODONTOMERUS Gahan, p. 528***punctatus* (Ashmead). Transf. to Unplaced Species, p. 594.**Genus MONODONTOMERUS Westwood, pp. 528-529***dentipes* (Dalman). Wis.*montivagus* Ashmead. Utah. Hosts: *Ancistrocerus tuberculocephalus* (Sauss.), *Anthophora neomexicana* Kll., *Bombus morrisoni* Cress., *Dianthidium sayi* Kll., *Osmia texana* Cress.**Genus MICRODONTOMERUS Crawford, p. 531***anthonomi* (Crawford). S. Car.**Genus ROPTROCERUS Ratzeburg
(= *Pachyceras* of Catalog, p. 549)**Insert after *Microdontomerus* Crawford, p. 531.**Genus MEGASTIGMUS Dalman, pp. 531-533***slossonae* Crosby.

Taxonomy: Gahan, 1951. Canad. Ent. 83: 172.

Subfamily PODAGRIONINAE

Transf. this subfamily from p. 583, and insert before Family Ormyridae, p. 533.

Family ORMYRIDAE

Genus **MEGORMYRUS** Cockerell

Syn. of **Ptinobius** Ashmead, p. 567.

Family PTEROMALIDAE

Genus **ASAPHES** Walker, p. 536

americanus Girault. Syn. of *fletcheri* (Crawford).

fletcheri (Crawford). N. B. and Maine south to N. C., west to Wis. and Iowa, Wash. Hosts: Aphidiine par. of aphids.

Asaphes americana Girault, 1914. N. syn.; types examined by B. D. Burks.

vulgaris Walker. Greenland.

Genus **APTEROLELAPS** Ashmead, p. 537

nigriceps Ashmead. In ref., delete 1904, Carnegie Mus. Mem. 1: xi, 279; insert 1901. Fauna Hawaii., v. 1, p. 312. ♀.

Genus **SPALANGIOLAELAPS** Girault, p. 537

Spalangiolaelaps Girault, change 1916 to 1917.

Genus **LAMPROTATUS** Westwood, pp. 537-538

auratus (Ashmead). Wis.

Genus **SELADERMA** Walker, p. 538

Delete; valid, extralimital genus; transf. *salicis* (Nees) to *Tridymus*, p. 546.

Genus **SYNTOMOPUS** Walker, p. 538

americanus Ashmead. Wis.

Genus **CHRYSOLAMPUS** Spinola, p. 539

spinolae (Ratzeburg). Syn. of *Rhopalicus tutela* (Walker), p. 550.

Genus **PACHYNEURON** Walker, pp. 539-541

allograptae Ashmead. Next available name for *syrphi* (Ashmead), preocc. by *Pachyneuron syrphi* (Ratzeburg), 1848; *teste* C. Ferrière *in litt.*

altiscutum Howard. Wis.

californicum Girault. Wash.

syrphi (Ashmead). Preoccupied; *allograptae* Ashmead next available name.

*Genus **CORUNA** Walker

Coruna Walker, 1833. Ent. Mag. 1: 371, 379.

Type: *Coruna clavata* Walker. By monotypy.

**Coryna* Foerster, 1856. Hym. Stud., v. 2, p. 59. Emend., preoccupied.

**Pachycrepis* Foerster, 1856. Hym. Stud., v. 2, pp. 51, 54, 59. N. name, unnecessarily proposed.

Insert in Pachyneurini following *Pachyneuron*, p. 541.

**clavata* Walker. N. B., Maine, Wash. Hosts: *Praon* spp. and *Aphidius* spp. par. on aphids.

Coruna clavata Walker, 1833. Ent. Mag. 1: 380. ♂ ♀.

**Chrysolampus suspensus* Nees, 1834. Hym. Ichn. Aff. Monog., v. 2, p. 127. ♀.

**Pteromalus aphidivorus* Foerster, 1841. Beitr. Monog. Pterom., p. 28. ♂.

**Pteromalus segmentarius* Foerster, 1841. Beitr. Monog. Pterom., p. 28. ♂.

Genus PACHYCREPOIDEUS Ashmead, p. 541

dubius Ashmead. Syn. of *vindemmiae* (Rondani).

**vindemmiae* (Rondani). Throughout U. S.; Cosmopolitan. Hosts: *Drosophila melanogaster* Meig.; other hosts in Catalog under *dubius* Ashmead.

Encyrtus vindemmiae Rondani, 1875. Comn. Agr. Parma Bol. 8: 84.

Pachycrepoideus dubius Ashmead, 1904.

Taxonomy: Delucchi, 1955. Ztschr. f. Angew. Ent. 38: 139-141.

Genus HALTICOPTERA Spinola, pp. 541-542

aenea (Walker). Wash.

goodi Crawford. Wash.

**rosae* Burks. R. I., Wis., Minn. Host: *Rhagoletis basiola* (O. S.) in rose hips.

Halticoptera rosae Burks, 1955. Wash. Ent. Soc. Proc. 57: 81. ♂ ♀.

stella Girault.

Megorismus poloni Girault, 1917. In ref., change p. 27 to p. 97.

***Genus CRYPTOPRYMNA Foerster**

**Prosodes* Walker, 1833. Ent. Mag. 1: 371, 374. Preocc.

Type: *Prosodes ater* Walker. By monotypy.

Cryptoprymna Foerster, 1856. Hym. Stud., v. 2, pp. 56, 59. N. name.

**Cryptoprymnus* Thomson, 1878. Hym. Scand., v. 5, p. 22. Emend.

Insert in Sphegigasterini after *Trigonogastra* Ashmead, p. 542.

**ater* (Walker). Greenland; Iceland, England.

Prosodes ater Walker, 1833. Ent. Mag. 1: 375. ♂.

Taxonomy: Bakkendorf, 1955. Ent. Meddel. 27: 146-147.

Genus PSILOCERA Walker

Transf. from Pteromalini, p. 556, and insert in Sphegigasterini after *Eurydinota* Foerster, p. 543.

***Genus SISYRIDIVORA Gahan**

Sisyridivora Gahan, 1951. Ent. Soc. Amer. Ann. 44: 100.

Type: *Sisyridivora cavigena* Gahan. By monotypy and orig. desig.

Insert in Sphegigasterini after *Panstenon* Walker, p. 543.

**cavigena* Gahan. Ohio. Host: *Climacia areolaris* (Hagen).

Sisyridivora cavigena Gahan, 1951. Ent. Soc. Amer. Ann. 44: 102. ♂ ♀.

Biology: Brown, 1951. Ent. Soc. Amer. Ann. 44: 103-110.

Genus TOMOCERA Howard, p. 543

Preocc.; replace by *Moranila* Cameron, the next available synonym, *teste* C. Ferrière *in litt.*

***Genus MORANILA Cameron**

Tomocera Howard, 1881. Preocc.

Moranila Cameron, 1883. Ent. Soc. London Trans. 1883: 188.

Type: (*Moranila testaceiceps* Cameron) = *Tomocera californica* Howard. By monotypy.

Dilophogaster Howard, 1886. N. syn.

Eunotomyia Masi, 1917. N. syn.

californica (Howard), n. comb. Mexico; Hawaii, Micronesia, Australia; Europe. Hosts: *Ceroplastes* spp., *Saissetia coffeae* (Walkr.), *S. nigra* (Niet.), *S. hemispherica* (Targ.), *Antonina bambusae* Mask.

Tomocera californica Howard, 1881.

**Moranila testaceiceps* Cameron, 1883. Ent. Soc. London Trans. 1883: 188.

Taxonomy: Timberlake, 1924. Hawaii. Ent. Soc. Proc. 5: 425.

***Genus TOMOCERODES Girault**

Tomocerodes Girault, 1916. Canad. Ent. 48: 246.

Type: *Tomocerodes americana* Girault. By monotypy.

Place in Eunotini after *Scutellista* Motschulsky, p. 544.

**americana* Girault. Ariz.; Mexico. Host: *Lecaniodiaspis prosopidis* (Mask.).

Tomocerodes americana Girault, 1916. Canad. Ent. 48: 247.

Genus TRIDYMUS Ratzeburg, p. 546

americensis Girault. Host: Cecidomyiid stem gall on *Salix*.

aphidis Girault. In ref. change v. 54 to v. 53.

salicis (Nees). Transf. from *Seladerma*, p. 538.

Genus CALLITULA Spinola, p. 548

cyrene (Walker). Transf. to *Pseudomicromelus* Gahan and Fagan, *teste* C. Ferrière, *in litt.*, who has examined the type.

Genus PSEUDOMICROMELUS Gahan and Fagan

Transf. with included sp. from Pteromalini, p. 553, to Merisini following *Callitula* Spinola, p. 548.

cyrene (Walker), n. comb. Transf. from *Callitula* Spinola, p. 548.

Genus METACOLUS Foerster, p. 549

Transf. from Pteromalini, p. 549, to Rhaphitellini following *Rhaphitelus* Walker, p. 549 (*teste* Burks, 1953. Ent. Soc. Wash. Proc. 55: 44).

bifasciatus Girault. Syn. of *fasciatus* Girault.

fasciatus Girault. N. Dak., Colo., N. Mex., Ariz., Wash., Calif.

Metacolus bifasciatus Girault, 1917. Delete "?W. Va." in distribution. Taxonomy: Burks, 1953. Ent. Soc. Wash. Proc. 55: 44.

**Genus ROPTROCERUS Ratzeburg
(= *Pachyceras* of Catalog, p. 549)**

Internatl. Comn. Zool. Nomencl. (Opinions and Declarations 15: 25-40, 1957) has suppressed *Pachyceras* Ratzeburg, 1844 to make the name available for a genus of Ammonoidea, *Pachyceras* Bayle, 1878. This involves reverting to *Roptrocera* Ratzeburg, 1848, for the chalcid.

Transf. genus with component species to Torymidae after *Microdon-tomerus* Crawford, p. 531.

rectus Provancher. Syn. of *xylophagorum* (Ratzeburg).

xylophagorum (Ratzeburg).

Roptrocera rectus Provancher, 1887. N. syn., *teste* O. Peck, *in litt.*, who examined the type.

Genus TOMICOBIA Ashmead

Transf. from Cleonymini, p. 566, to Pteromalini after *Dinotiscus* Ghesquière, p. 549.

peratripes (Girault), n. comb. Transf. from *Nasonia* Ashmead, p. 559, *teste* B. D. Burks, who examined the type.

Genus RHOPALICUS Foerster, pp. 549-550

pulchripennis (Crawford). Wis.

tutela (Walker). Maine, Wis.

**Cleonymus maculifer* Foerster, 1841. Beitr. Monog. Pterom. p. 34. ♀.

Pteromalus spinolae Ratzeburg, 1844. Ichn. d. Forstins., v. 1, p. 189. ♂ ♀.

**Pteromalus multicolor* Ratzeburg, 1848. Ichn. d. Forstins., v. 2, p. 193. ♂.

**Pteromalus aemulus* Ratzeburg, 1848. Ichn. d. Forstins., v. 2, p. 203.

**Rhopalicus annellus* Thomson, 1878. Hym. Scand., v. 5, p. 42. ♂ ♀.
Taxonomy: Kurdjumov, 1913. Ent. Obozr. 13: 10.

Genus COELOPISTHIA Foerster, p. 551

smithii Gahan. Syn. of *Schizonotus latus* (Walker).

Genus DIBRACHOIDES Kurdjumov, p. 551

**druso* (Walker). Que., Nebr., Wyo.

Pteromalus druso Walker, 1839. Monog. Chalc., v. 1, p. 232. ♂.

Pteromalus dynastes Foerster, 1840.

Taxonomy: Graham, 1956. Ent. Monthly Mag. 92: 260.

Genus DIGLOCHIS Foerster, p. 552

occidentalis (Ashmead). Host: *Tabanus* sp.

Genus TRITNEPTIS Girault, p. 552

hemerocampae Girault. Wash.

klugii (Ratzeburg). Mich., Calif.

Genus PSEUDOMICROMELUS Gahan and Fagan, p. 553

Transf. with included species to *Merisini* after *Callitula* Spinola, p. 548,
teste Burks, 1954, U. S. Dept. Agr. Tech. Bul. 1093, p. 4.

Genus EUPTEROMALUS Kurdjumov, pp. 554-555

americanus Gahan. Wis.

**hemipterus* (Walker), n. comb. Del., Wis., Wash., Oreg.

Pteromalus apicalis Walker, 1836. Ent. Mag. 3: 196. ♀. Preocc.

Pteromalus hemipterus Walker, 1836. Ent. Mag. 3: 196. ♂ ♀.

Pteromalus nidulans Thomson, 1878.

Taxonomy: Graham, 1956. Ent. Monthly Mag. 92: 255.

Genus LARIOPHAGUS Crawford, p. 555

dryorhizoxeni (Ashmead).

Taxonomy: Gahan, 1951. Canad. Ent. 83: 175.

Genus SCHIZONOTUS Ratzeburg, p. 555

**latus* (Walker). N. C. Host: *Chrysomela scripta* F.

Pteromalus latus Walker, 1835. Ent. Mag. 2: 481. ♀.

Pteromalus sieboldi Ratzeburg, 1852.

Coelopisthia smithii Gahan. N. syn., *teste* A. B. Gahan, who compared
his type with European specimens of *sieboldi* det. by Ruschka.

Taxonomy: Graham, 1956. Ent. Monthly Mag. 92: 255.

Genus PSILOCERA Walker, p. 556

Transf. with component species to *Sphegigasterini*, after *Eurydinota*
Foerster, p. 543, *teste* Burks, 1954. U. S. Dept. Agr. Tech. Bul. 1093, p. 3.

Genus SCYMNOPHAGUS Ashmead, p. 556

cryptognathae (Girault). Syn. of *townsendi* Ashmead.

mexicana (Girault). Syn. of *townsendi* Ashmead.

townsendi Ashmead. Va., S. C., Ga., Wis., Wash.; Mexico, West Indies, Japan.

Hosts: *Azya trinitatis* Marsh., *Cryptognatha nodiceps* Marsh.,
C. simillima Sic., *Hyperaspis lateralis* Muls., *H. sp.*; *Pentilia*
insidiosa Muls., *Scymnus* sp.

**Xenocrepis mexicana* Girault, 1916. Ent. News 27: 227. ♂ ♀.

**Tripolycystus cryptognathae* Girault, 1920. U. S. Natl. Mus. Proc. 58:
211. ♂ ♀.

Taxonomy: Burks, 1954. U. S. Dept. Agr. Tech. Bul. 1093, p. 13.

Genus XENOCREPIS Foerster, p. 556

**Disema* Foerster, 1878. Naturh. Ver. Rheinlande Verh. 35: 54.

Type: *Disema pallipes* Foerster. By monotypy. Preocc.

**Disemiscus* Ghesquière, 1946. Rev. Zool. Bot. Africaines 39: 369. N. name.

Delete *Caenocrepis* Thomson, 1878, a valid, extralimital genus (teste C. Ferrière in litt.).

Genus NEOPOLYCELIS Hincks, pp. 556-557

In citation of type of *Polycelis* Thomson, change *conspersus* to *conspersus*.

Genus CECIDOSTIBA Thomson, p. 557

dendroctoni Ashmead. Wis.

Genus CATOLACCUS Thomson, pp. 557-558

Revision: Burks, 1954. U. S. Dept. Agr. Tech. Bul. 1093, pp. 4-8.

aeneoviridis (Girault). Que., Ont.; Bermuda. Host: *Apanteles flaviconche* Riley. In orig. cit. of *Arthrolytus aeneoviridis* Girault, change p. 351 to p. 372.

**cyanoides* Burks. Maine and Mass. west to Mich. and Iowa. Host: Prob. sec. par. of Lepidoptera.

Catolaccus cyanoides Burks, 1954. U. S. Dept. Agr. Tech. Bul. 1093, p. 7. ♂ ♀.

fragariae (Rohwer). Transf. to *Heterolaccus* Masi, p. 558.

hunteri (Crawford). Transf. to *Heterolaccus* Masi, p. 558.

kansensis (Girault). S. C., Wis., Miss., Iowa, La., Idaho. Host: Prob. a secondary par.

**victoria* Burks. Tex., Idaho, Ariz. Host: Prob. sec. par. of Lepidoptera.

Catolaccus victoria Burks, 1954. U. S. Dept. Agr. Tech. Bul. 1093, p. 6. ♂ ♀.

***Genus HETEROLACCUS Masi**

Heterolaccus Masi, 1937. Festschr. Prof. Dr. Embrik Strand, v. 3, pp. 369-371.

Type: *Heterolaccus mauritanus* Masi. By monotypy.

Revision: Burks, 1954. U. S. Dept. Agr. Tech. Bul. 1093, pp. 8-13.

fragariae (Rohwer). Del. Transf. from *Catolaccus* Thomson, p. 558.

hunteri (Crawford). Del. south to Ga., west to Tex., Ariz., Calif.; Mexico, Guatemala; Hawaii. Hosts: *Acanthoscelides bisignatus* (Horn), *Anthonomus disjunctus* Lec., *A. nigrinus* Boh., *A. thurberiae* Pierce, *Rhynchaenus pallicornis* (Say). Transf. from *Catolaccus* Thomson, p. 558.

Genus ZATROPIS Crawford, pp. 558-559

Taxonomy: Burks, 1955. Ent. Soc. Wash. Proc. 57: 32.

albiclavus (Girault). N. Y., Md., Ohio. Host: gall of undet. midge. Transf. from *Eurydinoteloides* Girault, p. 566.

Taxonomy: Burks, 1955. Ent. Soc. Wash. Proc. 57: 37.

**capitis* Burks. Utah, Nev., Oreg., Calif. Hosts: ?*Rhopalomyia* spp.

Zatropis capitis Burks, 1955. Ent. Soc. Wash. Proc. 57: 35. ♂ ♀.

**chalcis* Burks. S. C., Fla. Hosts: *Anthonomus grandis* Boh., *A. thurberiae* Pierce, ? *Contarinia gossypii* Felt.

Zatropis chalcis Burks, 1955. Ent. Soc. Wash. Proc. 57: 34. ♂ ♀.

**rosaeolis* Burks. Wis., Ill., Minn. Host: *Rhynchites bicolor* (F.).

Zatropis rosaeolis Burks, 1955. Ent. Soc. Wash. Proc. 57: 32. ♂ ♀.

Genus PSEUDOCATOLACCUS Masi, p. 559

Taxonomy: Burks, 1954. U. S. Dept. Agr. Tech. Bul. 1093, p. 14.

americanus Gahan. Tex., Idaho. Host: Undet. galls on *Bidens frondosa*.

Genus NASONIA Ashmead, pp. 559-560

peratripes Girault. Transf. to *Tomicobia* Ashmead, p. 549.

Genus SYSTELLOGASTER Gahan, p. 564

ovivora Gahan. Ont., Pa. Hosts: *Parcoblatta pennsylvanica* (DeG.), *P. sp.*

Biology: Edmunds, 1952. Ent. News 63: 143.

Genus HEMITRICHUS Thomson, p. 565

rufipes Thomson. Wash.

Genus EURYDINOTELOIDES Girault, p. 566

Delete; a valid, extralimital genus. Transf. *albiclava* Girault to *Zatropis* Crawford, p. 558.

***Genus HABRITYS Thomson**

Habritys Thomson, 1878. Hym. Scand., v. 5, p. 54 (*Habritus*, error, p. 50).

Type: *Pteromalus brevicornis* Ratzeburg. By monotypy.

Place in Metastenini after *Acaenacis* Girault, p. 566.

**latrus* Wallace. N. Y., Wis. Host: *Ceratina dupla* Say.

Habritys latrus Wallace, 1954. Carnegie Mus. Ann. 33: 199. ♀.

Genus TOMICOBIA Ashmead, p. 566

Transf. with component species to Pteromalini after *Dinotiscus* Ghesquière, p. 549.

Genus EPISTENIA Westwood, p. 567

polita (Say). Tex.

Taxonomy: Gahan, 1951. Canad. Ent. 83: 174.

regalis Cockerell. In orig. cit., change Psyche v. 39 to 41.

Genus PTINOBIUS Ashmead, p. 567

Megormyrus Cockerell, 1926. N. syn., *teste* W. L. Brown, who compared specimens.

amabilis (Cockerell) n. comb. Probably a syn. of *magnificus* (Ashmead).

Genus CHEIROPACHUS Westwood, pp. 567-568

colon (Linnaeus).

Sphex colon Linnaeus, change 1858 to 1758.

Family EURYTOMIDAE**Genus HARMOLITA Motschulsky, pp. 568-573**

**Philachyra* Walker, 1871. Notes on Chalcid., pt. 1, p. 7. N. syn. (*teste* B. D. Burks).

Type: *Philachyra ips* Walker. By monotypy.

bromi (Howard). Transf. to *Eurytoma* Illiger, p. 575.

phyllostachitis Gahan. Transf. to *Gahaniola* Erdös, p. 573.

***Genus GAHANIOLA Erdös**

Gahaniola Erdös, 1952. Folia Ent. Hung. (Rovartani Közlemenyek), n. s., 5: 117.

Type: *Harmolita phyllostachitis* Gahan. Orig. desig.

Insert in Eurytomidae after *Harmolita* Motschulsky, p. 573.

phyllostachitis (Gahan). Transf. from *Harmolita* Motschulsky, p. 572.

Genus MACRORILEYA Ashmead, p. 573

oecanthi change (Riley) to (Ashmead).

Genus PRODECATOMA Ashmead, p. 574

cooki (Howard).

Taxonomy: Gahan, 1951. Canad. Ent. 83: 174.

maga (Girault). Transf. from *Eurytoma* Illiger, p. 577.

Taxonomy: Bugbee, 1956. Ent. Soc. Amer. Ann. 49: 505.

Genus CHRYSEIDA Spinola, p. 574

Revision: Burks, 1956. Brooklyn Ent. Soc. Bul. 51: 109.

***Genus TENUIPETIOLUS Bugbee**

Tenuipetiolus Bugbee, 1951. Kans. Ent. Soc. Jour. 24: 37.

Type: *Eurytoma albipes* Ashmead. Orig. desig.

Enter in Eurytomidae after *Chryseida* Spinola, p. 574.

albipes (Ashmead). Tex., Kans. Hosts: Cecidomyiid galls on *Helianthus*, *Xanthium*, and *Ambrosia*. Transf. from *Eurytoma* Illiger, p. 575.

medicaginis (Gahan). Host: Dipteron in pods of *Mentzelia*. Transf. from *Eurytoma* Illiger, p. 577.

**mentha* Bugbee. N. Mex. Host: Dipteron in seed pods of *Poliomintha incana*.

Tenuipetiolus mentha Bugbee, 1951. Kans. Ent. Soc. Jour. 24: 38, 44. ♂ ♀.

**rubra* Bugbee. N. Y. south to Va., west to Tenn. and Ariz. Hosts: *Diplolepis rosae* (L.), *Diastrophus nebulosus* (O. S.), *D. cuscuteaeformis* O. S., *D. sp.*

Tenuipetiolus rubra Bugbee, 1951. Kans. Ent. Soc. Jour. 24: 39. ♂ ♀.

Genus EURYTOMA Illiger, pp. 574-579

Tetramesa Walker, 1848. Delete from synonymy; valid, extralimital genus.

abnormis (Ashmead). Iowa.

**acuta absona* Bugbee. Colo. Host: *Diplolepis* sp.

Eurytoma acuta absona Bugbee, 1951. Ent. Soc. Amer. Ann. 44: 230. ♂ ♀.

acuta acuta Bugbee. Utah. Hosts: *Diplolepis arefacta* (Gillette), *D. tuberculator* complex.

Eurytoma acuta acuta Bugbee, 1951. Ent. Soc. Amer. Ann. 44: 225. ♂ ♀.

**acuta gemina* Bugbee. Ariz. Hosts: Prob. *Diplolepis tuberculator* complex.

Eurytoma acuta gemina Bugbee, 1951. Ent. Soc. Amer. Ann. 44: 232. ♂ ♀.

**acuta intermedia* Bugbee. N. Dak. Host: smooth rose gall.

Eurytoma acuta intermedia Bugbee, 1951. Ent. Soc. Amer. Ann. 44: 228. ♂ ♀.

**acuta ramosa* Bugbee. Mich., Minn., Man. Hosts: *Diplolepis tuberculator* complex.

Eurytoma acuta ramosa Bugbee, 1951. Ent. Soc. Amer. Ann. 44: 229. ♂ ♀.

albipes (Ashmead). Transf. to *Tenuipetiolus* Bugbee, p. 574.

bromi (Howard). Transf. from *Harmolita* Motschulsky, p. 569.

Taxonomy: Bugbee, 1956. Ent. Soc. Amer. Ann. 49: 505.

- **calcareo calcareo* Bugbee. Utah. Hosts: *Diplolepis variabilis* (Bass.), *D. bicolor* (Harr.).
Eurytoma calcareo calcareo Bugbee. Ent. Soc. Amer. Ann. 44: 242.
 ♂ ♀.
- **calcareo ignobilis* Bugbee. Nebr. Host: *Diplolepis bicolor* (Harr.).
Eurytoma calcareo ignobilis Bugbee, 1951. Ent. Soc. Amer. Ann. 44: 243. ♂ ♀.
- **calcareo infima* Bugbee. Ill. Host: *Diplolepis bicolor* (Harr.).
Eurytoma calcareo infima Bugbee, 1951. Ent. Soc. Amer. Ann. 44: 246. ♂ ♀.
- **calcareo lucida* Bugbee. Ill. Host: *Diplolepis bicolor* (Harr.).
Eurytoma calcareo lucida Bugbee, 1951. Ent. Soc. Amer. Ann. 44: 245. ♂ ♀.
- **calcareo mimica* Bugbee. Maine, Mass. Host: *Diplolepis bicolor* (Harr.).
Eurytoma calcareo mimica Bugbee, 1951. Ent. Soc. Amer. Ann. 44: 247. ♂ ♀.
- **calcareo singularis* Bugbee. Mass. Host: *Diplolepis nebulosus* (Bass.).
Eurytoma calcareo singularis Bugbee, 1951. Ent. Soc. Amer. Ann. 44: 248. ♂ ♀.
- **discordans* Bugbee. Maine, Mass., Va., Ont., Mich., Ind., Wis. Host: *Diplolepis variabilis* (Bass.).
Eurytoma discordans Bugbee, 1951. Ent. Soc. Amer. Ann. 44: 218, 220. ♂ ♀.
- **flavicrurensa* Bugbee. Oreg. Host: *Diplolepis polita* (Ashm.).
Eurytoma flavicrurensa Bugbee, 1951. Ent. Soc. Amer. Ann. 44: 258.
 ♀.
- **imminuta* Bugbee. Utah, Nev. Host: *Diplolepis variabilis* complex.
Eurytoma imminuta Bugbee, 1951. Ent. Soc. Amer. Ann. 44: 259.
 ♂ ♀.
- incerta incerta* Fullaway, changed status. Oreg. Hosts: *Diplolepis neglecta* (Gill.), *D. polita* (Ashm.).
Eurytoma incerta Fullaway. Reduced to subsp. rank (*teste* Bugbee, 1951. Ent. Soc. Amer. Ann. 44: 237).
- **incerta varia* Bugbee. Calif. Host: *Diplolepis tuberculator descansonis* K. and A.
Eurytoma incerta varia Bugbee, 1951. Ent. Soc. Amer. Ann. 44: 237.
 ♀.
- **iniquus* Bugbee. Colo. Host: *Diplolepis neglecta* (Gill.).
Eurytoma iniquus Bugbee, 1951. Ent. Soc. Amer. Ann. 44: 253. ♂ ♀.
- **longavena* Bugbee. B. C. Host: *Diplolepis bicolor* (Harr.).
Eurytoma longavena Bugbee, 1951. Ent. Soc. Amer. Ann. 44: 249.
 ♂ ♀.
- maga* Girault. Delete "?Nearctic"; Calif. Host: Gall of *Andricus chrysolepidicola* (Ashm.) on *Quercus dumosa* and *Q. douglasii*.
 Transf. to *Prodecatoma* Ashmead, p. 574.
- medicaginis* (Gahan). Transf. to *Tenuipetiolus* Bugbee, p. 574.
- obtusilobae* Ashmead. Mass. south to Fla., west to Man. and Oreg. Host: *Diplolepis radicum* complex.
- obtusiventris* Gahan. Delete "♂" from reference to orig. descr.
- polygraphi* (Ashmead). Transf. to *Ipideurytoma* Bouček and Nowicky, p. 579.
- sculpta* (Ashmead). Transf. to *Bruchophagus* Ashmead, p. 583.
- **spina* Bugbee. Oreg. Host: *Diplolepis tuberculator versicolor* K. and A.
Eurytoma spina Bugbee, 1951. Ent. Soc. Amer. Ann. 44: 250. ♂ ♀.

**spongiosa spongiosa* Bugbee, n. status. Mass. south to Va., west to Sask. and Utah. Hosts: *Diplolepis rosae* (L.), *D. dichlocerus* (Harr.), *D. tuberculator* complex.

Eurytoma spongiosa Bugbee, 1951. Ent. Soc. Amer. Ann. 44: 254.
♂ ♀.

**spongiosa curvavena* Bugbee. Minn. Host: Prob. *Diplolepis multispinosa* (Gill.)

Eurytoma spongiosa curvavena Bugbee, 1951. Ent. Soc. Amer. Ann. 44: 257. ♂ ♀.

stigma Ashmead. In ref. change Psyche 3: to 7:.

**terrea* Bugbee. Oreg. Host: *Diplolepis polita* (Ashm.)

Eurytoma terrea Bugbee, 1951. Ent. Soc. Amer. Ann. 44: 238. ♂ ♀.

*Genus IPIDEURYTOMA Bouček and Nowicky

Ipideurytoma Bouček and Nowicky, 1954. Ent. Tidskr. 75 (2-4): 267.

Type: *Ipideurytoma spessirtsevi* Bouček and Nowicky. By monotypy and orig. desig.

Insert in Eurytomidae after *Eurytoma* Illiger, p. 579.

polygraphi (Ashmead). Transf. from *Eurytoma* Illiger, p. 578.

Taxonomy: Bugbee, 1956. Ent. Soc. Amer. Ann. 49: 506.

*Genus HEIMBRA Cameron

Heimbra Cameron, 1910. Amer. Ent. Soc. Transf. 35: 433.

Type: *Heimbra acuticollis* Cameron. By monotypy.

Insert in Eurytomidae before *Eudecatoma* Ashmead, p. 579.

opacas (Ashmead), n. comb. Transf. from *Euperilampus* Walker, p. 516.

Genus EUDECATOMA Ashmead, pp. 579-582

flammeiventris of Catalog, p. 580; misspelling of *flammeiventris* (Girault).

flammeiventris (Girault); correct spelling of *flammeiventris* of Catalog, p. 580.

Genus SYSTOLE Walker, p. 582

**albipennis* Walker. Ont., Europe.

Systole albipennis Walker, 1832. Ent. Mag. 1: 22. ♀.

**geniculata* Foerster. Colo., Calif.; Europe; Asia. Hosts: Seeds of Fennel, Anise, and other umbellifers.

Systole geniculata Foerster, 1861. Prog. Realsch. Aachen, p. xxxiii.

Genus BRUCHOPHAGUS Ashmead, pp. 582-583

**caraganae* (Nikolskaja). Man., N. Dak., Sask.; Russia. Hosts: Seeds of *Caragana* spp.

Eurytoma caraganae Nikolskaja, 1952. Akad. Nauk., Chalc. Fauna U.S.S.R., pp. 63, 176, 187. ♂ ♀.

Taxonomy: Bugbee, 1956. Ent. Soc. Amer. Ann. 49: 505.

Biology: Znoiko, 1952. Ent. Obozr. 32: 49-55.—Hedlin, 1956. Canad. Ent. 88: 622-625.

sculpta (Ashmead). Transf. from *Eurytoma* Illiger, p. 578.

Taxonomy: Bugbee, 1956. Ent. Soc. Amer. Ann. 49: 505.

Family PODAGRIONIDAE

Delete family heading.

Subfamily PODAGRIONINAE

Transf. to Torymidae after Megastigmidae, p. 533.

Subfamily CHALCEDECTINAE

Change to Family chalcidectidae, p. 584.

Genus CHALCEDECTUS Walker, p. 584

**Chalcedectes* Ashmead, 1899. Ent. Soc. Wash. Proc. 4: 201. Emend.

Family CHALCIDIDAE

Subfamily HALTICHELLINAE

Generic Revision: Steffan, 1951-1953. Feuille des Nat., n. s., 6: 1-7, 81-85; 8: 7-12, 33-36.

Taxonomy: Kerrich and Menon, 1949. Ent. Monthly Mag. 85: 207-211.

Genus HALTICHELLA Spinola, p. 584

perpulchra of Catalog, p. 584; misspelling of *perpulera* (Walsh).

perpulera (Walsh); correct spelling of *perpulchra* of Catalog, p. 584.

Genus STOMATOCERAS Kirby, p. 585

Irichohaltichella, change Girault, 1912 to Cameron, 1912. Delete from syn.; valid extralimital genus (*teste* J. R. Steffan, *in lit.*).

unipunctatipennis unipunctatipennis Girault. N. Y., Fla.

Genus ACANTHOCHALCIS Cameron, p. 585

nigricans Cameron. Tex., Calif.

unispinosa Girault. Calif.

Genus BRACHYMERIA Westwood, pp. 586-588

coloradensis (Cresson). Idaho, Calif.; Europe, Asia.

columbiana (Howard). Fla.

compsilurae (Crawford). N. J., Pa., Mich., N. Mex., Oreg.

**discreta* Gahan. Tex., Ariz.; Mexico.

Brachymeria discreta Gahan, 1942. U. S. Natl. Mus. Proc. 92: 43. ♀ ♂.

**discretoides* Gahan. Tex., Ariz.; Mexico.

Brachymeria discretoides Gahan, 1942. U. S. Natl. Mus. Proc. 92: 44. ♀ ♂.

hammari (Crawford). Md., Ga., Fla., Ind., Kans., Calif.

tegularis (Cresson). Tenn., Calif.

Genus DIRHINUS Dalman, p. 588

paoli Burks; correct spelling of *paolii* of Catalog, p. 588. S.C., Kans., Tex.

paolii of Catalog, p. 588; misspelling of *paoli* Burks.

Genus CHALCIS Fabricius, pp. 588-589

canadensis (Cresson). Wis.

divisa (Walker). Tex.

flebilis (Cresson). Fla., Mich.

megalomis Burks. Mich., Iowa, Wyo.

neptis Burks. Idaho, Calif.

Genus SPILOCHALCIS Thomson, pp. 589-592

arcana (Cresson). Ala., Tex., Mont., Ariz.

Smicra enausta of Catalog change to *Smicra encausta* Cresson,

dema Burks. Ariz.

eubule (Cresson). Fla. Hosts: *Phoebis sennae eubule* (L.), *Eurema nicippe* Cram.

melana Burks. N. Y., Va., Mo. Host: *Pachyschelus laevigatus* Say.

Family LEUCOSPIDAE

Genus LEUCOSPIS Fabricius, p. 593

Micrapion Kriechbaumer, 1894. Delete from syn.; valid, extralimital genus (*teste* Steffan, 1948. Soc. Ent. de France Bul. 53: 81-88).

Unplaced Genera, p. 593

Hoplocrepis Ashmead, 1890. Transf. to Entedontinae following *Chrysocharomyia* Girault, p. 465.

Unplaced Species, p. 594

**Lophocomodia americana* Ashmead, 1888. Kans. Agr. Expt. Sta. Bul., appendix p. vi. ♂.

Entedon antiopae Packard, 1881. N. Eng.

Stenomesius? aphidicola Ashmead, 1880. Fla.

Caccophagus (!) brunneus Provancher, 1887. Que.

Camptotera (!) clavata Provancher, 1888. Que.

Entedon coquillettii Riley, 1889. Calif.

Stinoplus cyaneus Ashmead, 1894. W. Va.

Semiotellus fasciatus Provancher, 1881. Canada.

Trichogramma flavus Ashmead, 1880. Fla.

Encyrtus Gastron Walker, 1847. Fla.

Eulophus Gobryas Walker, 1847. Fla.

Entedon Imbrasus Walker, 1947. Fla.

Leucospis integra Haldeman, 1844. Pa.

Perilampus laevis Provancher, 1887. Ont.

Semiotellus minimus Provancher, 1881. Canada.

Eulophus Minyas Walker, 1847. Fla.

Cricellius megachilis Ashmead, 1897. Calif.

Pteromalus nigricornis Provancher, 1881. Canada.

Semiotellus oblongus Provancher, 1881. Canada.

Eurytoma orbiculata Say, 1836. Ind.

Lochites punctata Ashmead, 1887. Transf. from *Liodontomerus* Gahan, p. 528.

Pteratomus Putnamii Packard, 1864. Vt.

Eulophus ramosus Provancher, 1881. Canada.

Encyrtus Reate Walker, 1847. Fla.

Trigonoderus varipes Viereck, 1903. N. Mex.

Superfamily CYNIPOIDEA

Monograph: Weld, 1952. Cynipoidea (Hym.) 1905-1950, 351 pp. Ann Arbor, Mich. (Privately printed).

Family LIOPTERIDAE

Genus KIEFFERIELLA Ashmead, p. 595

**acmaeodera* Weld. Idaho.*Kiefferiella acmaeodera* Weld, 1956. Ent. Soc. Wash. Proc. 58: 291. ♀.

Family FIGITIDAE

Genus MELANIPS Walker, pp. 598-599

In orig. cit. of *Amblynotus* Hartig, change p. 449 to p. 419.**opacus* (Hartig). Calif.; Europe.*Scytodes opacus* Hartig, 1840. Germar Ztschr. f. Ent. 2: 202. ♂ ♀.

Genus FIGITES Latreille, pp. 599-600

impatiens Say. In orig. cit., change p. 258 to p. 268.

Family CYNIPIDAE

Genus HEXACOLA Foerster, pp. 601-602

californica (Kieffer). Delete entire entry.

*Genus GANASPIDIUM Weld

Ganaspidium Weld, 1955. Ent. Soc. Wash. Proc. 57: 274.Type: *Ganaspidium pusillae* Weld. By monotypy.Place in Eucoilinae after *Trybliographa* Foerster, p. 604.**pusillae* Weld. Texas. Host: *Liriomyza pusilla* (Meig.).*Ganaspidium pusillae* Weld, 1955. Ent. Soc. Wash. Proc. 57: 274. ♂ ♀.

Genus CHARIPS Marshall, p. 607

**victrix* (Westwood). Greenland; Europe.*Allotria victrix* Westwood, 1833. Mag. Nat. Hist. 6: 495.

Genus SAPHONECRUS Dalla Torre and Kieffer, p. 610

brevicornis (Ashmead). Transf. from *Synergus* Hartig, p. 610.

Taxonomy: Weld, 1952. U. S. Natl. Mus. Proc. 102: 315.

Genus SYNERGUS Hartig, pp. 610-613

agrifoliae Ashmead.*Synergus maculatus* Fullaway. (Syn. by Weld, 1952. U. S. Natl. Mus. Proc. 102: 337).*Synergus obscurus* McCracken and Egbert. (Syn. by Weld, *loc. cit. supra.*)*brevicornis* Ashmead. Transf. to *Saphonecrus* Dalla Torre and Kieffer, p. 610.*maculatus* Fullaway. Syn. of *agrifoliae* Ashmead.*obscurus* McCracken and Egbert. Syn. of *agrifoliae* Ashmead.

Genus SYNOPHROMORPHA Ashmead, p. 613

**rubi* Weld. Ill. Reared from galls of *Diastrophus cuscuteaeformis* O. S.*Synophromorpha rubi* Weld, 1952. U. S. Natl. Mus. Proc. 102: 317.
♀ ♂.*sylvestris* (Osten Sacken). Reared from galls of *Diplolepis ignota* (O. S.)

Taxonomy: Weld, 1952. U. S. Natl. Mus. Proc. 102: 316.

**terricola* Weld. D. C., Va. Reared from galls of *Diastrophus radicum* Bass.
and *D. bassettii* Beut.*Synophromorpha terricola* Weld, 1952. U. S. Natl. Mus. Proc. 102: 316.
♀ ♂.

Genus ANTISTROPHUS Walsh, pp. 615-616

pisum Ashmead. Change *Asclepiadiphila stephanotidis* Ashmead to *Asclepiadiphila*.

Genus DIPLOLEPIS Geoffroy, p. 617

Delete *Diplolepis* Geoffroy, 1762. Hist. Abrégé des Insectes. This publication not available for nomenclatorial purposes, *teste* Opinion 228, Internatl. Conn. Zool. Nomencl., April 1954.

***Genus DIPLOLEPIS Fourcroy**

Diplolepis Fourcroy, 1785. Ent. Parisiensis, pt. 2, p. 391.

Type: *Cynips rosae* L. Desig. by Karsch, 1880.

Replaces *Diplolepis* Geoffroy, pp. 617-620.

***lens** Weld. Oreg., Wash., Calif. Gall on *Rosa nutkana*.

Diplolepis lens Weld, 1952. U. S. Natl. Mus. Proc. 102: 320. ♀ ♂.

occidentalis (Beutenmueller). Syn. of **polita** (Ashmead).

polita (Ashmead). Calif.

Rhodites occidentalis Beutenmueller. (Syn. by Weld, 1952. U. S. Natl. Mus. Proc. 102: 321).

***terrigena** Weld. Calif. Gall on *Rosa* sp.

Diplolepis terrigena Weld, 1952. U. S. Natl. Mus. Proc. 102: 320. ♀ ♂ 0.

Genus NEUROTERUS Hartig, pp. 620-624

***tantulus** Weld. Md. Gall on *Quercus alba*.

Neuroterus tantulus Weld, 1952. U. S. Natl. Mus. Proc. 102: 321. ♀ 0.

vernus Gillette. Change to *verna* Gillette.

Genus TRICHOTERAS Ashmead, p. 625

***perfulvum** Weld. Calif. Gall on *Quercus chrysolepis*.

Trichoterus perfulvum Weld, 1952. U. S. Natl. Mus. Proc. 102: 322. ♀ 0.

***rotundula** Weld. Calif. Gall on *Quercus chrysolepis*.

Trichoterus rotundula Weld, 1952. U. S. Natl. Mus. Proc. 102: 323. ♀ 0.

vaccinifoliae (Ashmead). Change to *vacciniifoliae* (Ashmead), and delete (!) in ref.

Genus XANTHOTERAS Ashmead, pp. 625-626**Agamic Generation, pp. 625-626**

forticorne (Osten Sacken). In cit. of orig. descr., change p. 498 to p. 489.

***Genus PARACRASPIIS Weld**

Paracraspis Weld, 1952. U. S. Natl. Mus. Proc. 102: 324.

Type: *Callirhytis guadaloupensis* Fullaway. Orig. desig.

Place in Cynipinae after *Xanthoterus* Ashmead, p. 626.

guadaloupensis (Fullaway). Transf. from *Acraspis* Mayr, p. 627.

insolens (Weld). Transf. from *Acraspis* Mayr, p. 627.

patelloides (Weld). Transf. from *Acraspis* Mayr, p. 627.

Genus ACRASPIS Mayr, pp. 626-628

guadaloupensis (Fullaway). Transf. to *Paracraspis* Weld, p. 628.

insolens Weld. Transf. to *Paracraspis* Weld, p. 628.

longicornis (Ashmead). Change (Ashmead) to (Bassett).

Dryophanta longicornis Ashmead, change Ashmead to Bassett.

patelloides Weld. Transf. to *Paracraspis* Weld, p. 628.

Genus LIODORA Foerster, p. 629

apiaria Weld. Change to *apiarium* Weld.

**comata* Weld. Va. Gall on *Quercus alba*.

Liodora comata Weld, 1952. U. S. Natl. Mus. Proc. 102: 325. ♀ ♂ 0.

Genus ADLERIA Rohwer and Fagan, pp. 629-630

Taxonomy: Niblett, 1955. So. London Ent. and Nat. Hist. Soc. Proc. and Trans. 1953-54: 144. (Possible syn. of *Adleria* with *Andricus*.)

vacciniiformis (Beutenmueller). Change to *vacciniiformis* (Beutenmueller).

Cynips vacciniiformis, change to *vacciniiformis* Beutenmueller, 1913.

Genus AMPHIBOLIPS Reinhard, pp. 630-631

**globus* Weld. Va. Gall on *Quercus palustris*.

Amphibolips globus Weld, 1952. U. S. Natl. Mus. Proc. 102: 325. ♀ ♂ 0 and agamic ♀.

Genus ANDRICUS Hartig, pp. 631-637

**albicomus* Weld. Oreg. Gall on *Quercus garryana*.

Andricus albicomus Weld, 1952. U. S. Natl. Mus. Proc. 102: 328. ♀ 0.

brunneus Fullaway.

Taxonomy: Weld, 1952. U. S. Natl. Mus. Proc. 102: 327 (Descr. of gall).

**chico* Weld. Calif. Gall on *Quercus lobata*.

Andricus chico Weld, 1952. U. S. Natl. Mus. Proc. 102: 328. ♀ 0.

chrysolepidicola (Ashmead).

Cynips kelloggii, change to *kelloggi* Fullaway, 1911.

**crenatus* Weld. Calif. Gall on *Quercus dumosa* and *Q. douglasii*.

Andricus crenatus Weld, 1952. U. S. Natl. Mus. Proc. 102: 330. ♀ 0.

**multicostatus* Weld. Ariz. Gall on *Quercus subturbinella*.

Andricus multicostatus Weld, 1952. U. S. Natl. Mus. Proc. 102: 331. ♀ 0.

pilula Bassett. Gall on *Quercus gambelii*.

Taxonomy: Weld, 1952. U. S. Natl. Mus. Proc. 102: 332. (Descr. of ♂).

**pilularis* Weld. Ariz. Gall on *Quercus subturbinella*.

Andricus pilularis Weld, 1952. U. S. Natl. Mus. Proc. 102: 333. ♀ ♂ 0.

**prescottii* Weld. Ariz. Gall on *Quercus subturbinella*.

Andricus prescottii Weld, 1952. U. S. Natl. Mus. Proc. 102: 331. ♀ 0.

**projectus* Weld. Oreg. Gall on *Quercus chrysolepis*.

Andricus projectus Weld, 1952. U. S. Natl. Mus. Proc. 102: 329. ♀ 0.

Genus ANTRON Kinsey, pp. 640-641

**pileus* Weld. Ariz. Gall on *Quercus subturbinella*.

Antron pileus Weld, 1952. U. S. Natl. Mus. Proc. 102: 333. ♀ ♂ 0.

Genus ZOPHEROTERAS Ashmead, pp. 642-643

**guttatum* Weld. Va. Gall on *Quercus palustris*.

Zopheroteras guttatum Weld, 1952. U. S. Natl. Mus. Proc. 102: 334. ♀ 0.

Genus BASSETTIA Ashmead, pp. 643-644

corrugis (Bassett). Syn. of *floridana* Ashmead.

floridana Ashmead. Conn. Ovipositing in *Quercus prinoides*.

Dryophanta corrugis Bassett. (Syn. by Weld, 1952. U. S. Natl. Mus. Proc. 102: 336.)

Genus EUMAYRIA Ashmead, p. 644

**invisa* Weld. Fla. Gall on *Quercus myrtifolia*.

*Eumayria invis*a Weld, 1952. U. S. Natl. Mus. Proc. 102: 335. ♀ 0.

Genus HOLOCYNIPS Kieffer, p. 645

badia (Bassett). Change *Q. primus* to *Q. prinus* in host list.

Genus DRYOCOSMUS Giraud, pp. 645-646

**grumatus* Weld. Calif. Gall on *Quercus wislizeni*.

Dryocosmus grumatus Weld, 1952. U. S. Natl. Mus. Proc. 102: 336. ♀ 0.

**minusculus* Weld. Calif. Gall on *Quercus agrifolia*.

Dryocosmus minusculus Weld, 1952. U. S. Natl. Mus. Proc. 102: 337.
♀ 0.

Genus CALLIRHYTIS Foerster, pp. 647-653

**cistella* Weld. Ariz. Gall on *Quercus emoryi*.

Callirhytis cistella Weld, 1952. U. S. Natl. Mus. Proc. 102: 338. ♀ 0.

corrugis (Bassett).

Taxonomy: Weld, 1952. U. S. Natl. Mus. Proc. 102: 338 (descr. of gall).

**furva* Weld. Va., Mo. Gall on *Quercus palustris*.

Callirhytis furva Weld, 1952. U. S. Natl. Mus. Proc. 102: 341. ♀ 0.

**hopkinsi* Weld. D. C., Va., W. Va. Gall on *Quercus imbricaria*.

Callirhytis hopkinsi Weld, 1952. U. S. Natl. Mus. Proc. 102: 339. ♀ 0.

modesta (Osten Sacken).

Taxonomy: Weld, 1952. U. S. Natl. Mus. Proc. 102: 338.

**oblata* Weld. Va. Gall on *Quercus coccinea* and *Q. falcata*.

Callirhytis oblata Weld, 1952. U. S. Natl. Mus. Proc. 102: 340. ♀ 0.

**subcostata* Weld. Va. Gall on *Quercus stellata*.

Callirhytis subcostata Weld, 1952. U. S. Natl. Mus. Proc. 102: 341. ♀ 0.

Non-valid Published Names in Cynipoidea, pp. 653-654

**nigrosus* (Kleidotoma) Ashmead, 1906. In Slosson, Ent. News 17: 9. ♀.

quercus-mellaria (Cynips) Riley, 1880. In ref., change p. 289 to p. 298.

Superfamily PROCTOTRUPOIDEA**Family EVANIIDAE****Genus HYPTIA Illiger, pp. 656-657**

harpoides Bradley. Hosts: *Parcoblatta uhleriana* (Sauss.), *P. pennsylvanica* (DeG.).

Family GASTERUPTIIDAE**Genus AULACOSTETHUS Philippi, pp. 657-659**

Preocc. Replaced by *Pristaulacus* Kieffer.

Genus PRISTAULACUS Kieffer

(= *Aulacostethus* Philippi of Catalog, pp. 657-659)

**Aulacomastus* Muesebeck and Walkley, 1956. U. S. Natl. Mus. Proc. 105: 333. Unnecessarily proposed to replace *Aulacostethus* Philippi.

Genus AULACUS Jurine, pp. 659-660

**aneurus* Walkley. N. Mex. (Lincoln Natl. Forest). Host: *Dendroctonus* sp.
*Aulacus aneur*us Walkley, 1952. Ent. Soc. Wash. Proc. 54: 185. ♀ ♂.

pallipes Cresson. Va. Host: *Xiphydria mellipes* Harr.

Genus GASTERUPTION Latreille, p. 660

Gasteruption Latreille. Change type citation to *Ichneumon jaculator* Linnaeus. Desig. by Westwood, 1839 (*teste* Muesebeck and Walkley, 1956. U. S. Natl. Mus. Proc. 105: 354-355).

Foenus Fabricius. Change type citation to *Ichneumon jaculator* Linnaeus. Desig. by Westwood, 1839 (*teste* Muesebeck and Walkley, 1956, *op. cit. supra*, p. 354).

Family PROCTOTRUPIDAE**Genus PROCTOTRUPES Latreille, pp. 663-664**

caudatus Say. N. Y., Pa., Md., D. C.

**Proctotrypes crenulatus* Patton, 1879. Canad. Ent. 11: 64. ♀.

**crenulatus* Patton. Syn. of *caudatus* Say.

florissantensis Rohwer. Wyo., Wash.

pallidus (Say). Idaho.

Genus PHAENOSERPUS Kieffer, p. 664

nevadensis (Kieffer). Place before *nigripes* (Ashmead).

Genus CRYPTOSEPHUS Kieffer, pp. 664-665

After literature citation add "No species," and in type designation change Kieffer, 1914, to Kieffer, 1908.

Family CERAPHRONIDAE**Genus CERAPHRON Jurine, pp. 666-668**

**Megaspilidea* Ashmead, 1888. Canad. Ent. 20: 48, 49.

Type: *Megaspilidea minuta* Ashmead. By monotypy.

Genus TRICHOSTERESIS Foerster, p. 671

Thliboneura Thomson. Change 1859 (1858) to 1858.

Genus MEGASPILUS Westwood, pp. 671-672

Megaspilodes Ashmead. After Type, change "Present desig." to "By monotypy."

Family DIAPRIIDAE**Genus SOLENOPSIA Wasmann, p. 672**

No Nearctic species of *Solenopsia* Wasmann known (*teste* Wing, 1951. Roy. Ent. Soc. London Trans. 102: 195).

***Genus BRUESOPRIA Wing**

(= *Solenopsia* Wasmann of Catalog, p. 672)

Bruesopria Wing, 1951. Roy. Ent. Soc. London Trans. 102: 195.

Type: *Bruesopria seeversi* Wing. Orig. desig.

Place in Diapriinae after *Solenopsia* Wasmann, p. 672.

americana (Brues). Transf. from *Solenopsia* Wasmann (*teste* Wing, 1951. Roy. Ent. Soc. London Trans. 102: 197).

**seeveri* Wing. N. C. (Wake Co.). With *Solenopsis molesta* (Say).

Bruesopria seeversi Wing, 1951. Roy. Ent. Soc. London Trans. 102: 195. ♀.

***Genus POLYPEZA Foerster**

(= *Propantolyta* Kieffer, p. 673)

Polypeza Foerster, 1856. Hym. Stud., v. 2, pp. 123, 127.

Type: *Polypeza pergandei* Ashmead, 1893. First included species.

Replaces *Propantolyta* Kieffer, p. 673, an isogenotypic syn. (*teste* Muesebeck and Walkley, 1956. U. S. Natl. Mus. Proc. 105: 387, 390).

Genus ENTOMACIS Foerster, p. 673

(= *Hemilexis* Foerster, p. 674)

Hemilexis Foerster. N. syn. Change type citation to *Hemilexis (mellipetiola!)* = *mellipetiolata* Ashmead. First included species (*teste* Muesebeck and Walkley, 1956. U. S. Natl. Mus. Proc. 105: 358).

Genus HEMILEXODES Ashmead

(= *Hemilexis* Foerster of Catalog, p. 674)

Genus ANEURHYNCHUS Westwood, pp. 674-675

Delete *Mythras* Curtis from synonymy and substitute the following: *Mythras* Brullé, 1846. Hist. Natl. Ins., Hymn., v. 4, p. 612.

Type: *Aneurhynchus galesiformis* Westwood, through citation of *Mythras* as a syn. of *Aneurhynchus* (*teste* Muesebeck and Walkley, 1956. U. S. Natl. Mus. Proc. 105: 372).

Genus PSILUS Panzer, p. 675

Galesus Curtis, 1831. Delete and replace with *Galesus* Haliday, 1829. In Curtis, A guide to an arrangement of British insects, column 108.

Type: *Psilus cornutus* Panzer. By monotypy. *Teste* Muesebeck and Walkley, 1956. U. S. Natl. Mus. Proc. 105: 354.

Genus MONELATA Foerster, p. 676

Corynopria Haliday. Add: Proposed as a subgenus of *Diapria* Latreille.

Genus CERATOPRIA Ashmead, p. 678

Remove from synonymy under *Trichopria*, p. 678 and place before *Trichopria*, on basis of study of genotype by C. F. W. Muesebeck. In citation change p. 439 to 428.

bifoveolata Ashmead. Transf. from *Trichopria*, p. 678.

floridana (Ashmead). Transf. from *Trichopria*, p. 678.

infuscatipes Ashmead. Transf. from *Trichopria*, p. 679.

longiceps Ashmead. Transf. from *Trichopria*, p. 679.

megaplasta Ashmead. Transf. from *Trichopria*, p. 679.

pusilla Ashmead. Transf. from *Trichopria*, p. 679.

Genus TRICHOPRIA Ashmead, pp. 678-680

Trichopria Ashmead. Change p. 432 to 431.

Ceratopria Ashmead. Delete from synonymy.

Orthopria Kieffer. Change 1910 to 1911, and before p. 984 insert "983,".

bifoveolata (Ashmead). Transf. to *Ceratopria*, p. 678.

floridana (Ashmead). Transf. to *Ceratopria*, p. 678.

infuscatipes (Ashmead). Transf. to *Ceratopria*, p. 678.

longiceps (Ashmead). Transf. to *Ceratopria*, p. 678.

megaplasta (Ashmead). Transf. to *Ceratopria*, p. 678.

pusilla (Ashmead). Transf. to *Ceratopria*, p. 678.

Genus BASALYS Westwood, p. 680

**ruficornis* Provancher. "Canada."

Basalys ruficornis Provancher, 1881. Nat. Canad. 12: 261. ♂.

Genus DOLIOPRIA Kieffer, p. 681

After Type change "Monob." to "First included species."

Genus PROSYNACRA Kieffer, p. 681

After literature citation add, "No species."

Subfamily CINETINAE, p. 681

Delete. Delete also statement immediately below. Replace with Subfamily Belytinae.

Subfamily BELYTINAE, p. 681

Replaces Subfamily Cinetinae, p. 681.

Genus ISMARUS Haliday, p. 681

Entomia Herrich-Schaeffer. Delete "Nom. nud." Add:

Type: *Entomia campanulata* Herrich-Schaeffer. By monotypy (*teste* Muesebeck and Walkley, 1956. U. S. Natl. Mus. Proc. 105: 350).

Entomius Haliday. Add "Emend." Delete type desig.

Genus OXYLABIS Foerster, p. 681

Lyteba Thomson. Insert 155 before 180.

Genus BELYTA Jurine

(= *Cinetus* Jurine of Catalog, pp. 682-683)

Transf. *Cinetus* and *Cinntus* to p. 684 where *Cinetus* Jurine replaces *Miota* Foerster.

Genus CINETUS Jurine

(= *Miota* Foerster, pp. 684-685)

Change type citation as given on p. 682 to *Cinetus iridipennis* Lepelletier and Serville, 1825. First included species (*teste* Muesebeck and Walkley, 1956, U. S. Natl. Mus. Proc. 105: 342).

**americanus* (Ashmead). Fla.

Psilomma americana Ashmead, 1887. Canad. Ent. 19: 197. ♂.

analis Ashmead. Change to (Ashmead).

californicus Ashmead. Change from *californica* (Ashmead).

canadensis Ashmead. Change to (Ashmead).

glaber (Ashmead). Change from *glabra* Ashmead.

monticola (Kieffer). Delete parentheses.

nasutus Provancher. Change from *nasuta* (Provancher).

pennsylvanicus Kieffer. Change from *pennsylvanica* (Kieffer).

xanthrocerus Kieffer. Change from *xanthocera* (Kieffer).

Genus ACLISTA Foerster, pp. 685-689

**aquilonia* Muesebeck, n. name. Replaces *ashmeadi* Muesebeck and Walkley, preocc.

ashmeadi Muesebeck and Walkley, 1951. Preoccupied. Replaced by *aquilonia* Muesebeck.

**ashmeadi* (Kieffer). Calif. (San Mateo).

Zelotypa Ashmeadi Kieffer, 1905. Soc. Hist. Nat. Metz. (ser. 2) 12: 109. ♂.

**consimilis* Muesebeck, n. name. Ont. (Ottawa).

**Pantoclis similis* Ashmead, 1897. Canad. Ent. 29: 55. ♂. Preoccupied.

flavipes (Ashmead).

Pantoclis ? flavidipes Kieffer, 1910. In Wytsman, Gen. Ins., fasc. 107, p. 27. New name unnecessarily proposed.

harringtoni (Kieffer). Place before *hirtifrons* (Ashmead).

jeannettensis Muesebeck and Walkley. Place before *kiefferi* (Fouts), p. 687.

**nevadensis* Kieffer. Nev. (Ormsby).

Aclista nevadensis Kieffer, 1905. Berlin. Ent. Ztschr. 50: 277. ♂.

pacifica Muesebeck and Walkley. Place before *paludicola* Muesebeck.

**similis* (Ashmead), 1897, not 1893. Replaced by *consimilis* Muesebeck.

Family SCELIONIDAE

Genus TIPHODYTES Bradley, p. 690

gerriphagus (Marchal). Calif.

Genus EUMICROSOMA Gahan, p. 690

beneficium Gahan.

Biology: After McCulloch, insert 1914. Jour. Econ Ent. 7: 219-227.

TELENOMUS subgenus TELENOMUS Haliday, pp. 691-694

Prophanurus Kieffer. In type citation, change "Desig. by Kieffer, 1926" to "Orig. desig."

Paridris Brèthes. After "N. syn." add "Preocc."

**basalis* Wollaston. Africa, Australia, West Indies; Fla., La. Host: *Nezara viridula* (L.).

Telenomus basalis Wollaston, 1858. Ann. Mag. Nat. Hist. (3) 1: 25. ♂ ♀.

Telenomus maderensis Wollaston, 1858. Idem, ♀.

Telenomus megacephalus Ashmead, 1894. Linn. Soc. London Jour., Zool. 25: 203, 212. ♀.

Telenomus picipes Dodd, 1919. Ent. Soc. London Trans. 1919, p. 354. ♀ ♂.

Biology: Miller, 1928. Fla. Ent. 12: 17-20.—Cumber, 1951. New Zeal. Jour. Sci. and Technol., Sect. B, 32: 30-37.

emersoni (Girault). Place before *fimbriatus* Kieffer.

Biology: Parman, 1928. U. S. Dept. Agr. Cir. 18, 6 pp.

megacephalus Ashmead. Syn. of *basalis* Wollaston.

utahensis Ashmead. Host: *Euschistus impictiventris* Stål.

Genus BAEUS Haliday, p. 695

Trichasius Provancher. Delete from synonymy. Remove to Teleasinae, p. 696, where it replaces *Paragryon* Kieffer.

clavatus (Provancher). Transfer to *Trichasius*.

Genus TRICHASIVS Provancher

(= *Paragryon* Kieffer, p. 696)

Remove from synonymy under *Baeus*, p. 695, to Teleasinae, p. 696 where it replaces *Paragryon* Kieffer (*teste* Muesebeck, 1956. Ent. Soc. Wash. Proc. 58:24).

clavatus Provancher. Transfer from *Baeus*, p. 695.

Genus TRIMORUS Foerster, pp. 697-701

Trimorus Foerster. In type citation, change Ashmead, 1893 to Ashmead, 1903.

**aeneus* (Provancher). Ont.

Spalangia aenea Provancher, 1887. Addit. Corr. Faune Ent. Canada Hym., p. 200. ♂. Placed in *Trimorus* on the authority of O. Peck, who has studied the type.

Genus SPARASION Latreille, pp. 701-702

**Bebelus* Gistel, 1848. Naturgesch. Tierr., p. X.

Type: *Sparasion frontalis* Latreille. Autob.

Genus BARYCONUS Foerster

(= *Hoploteleia* Ashmead, p. 703)

Type: *Baryconus floridanus* Ashmead. First included species
(*teste* Muesebeck and Walkley, 1956. U. S. Natl. Mus.
Proc. 105: 335).

Baryconus Foerster of Catalog, p. 705, becomes *Leptoteleia*.

Genus ANTERIS Foerster, p. 704

Anteris Foerster. Change type to *Anteris bilineatus* Thomson. Desig. by
Muesebeck and Walkley, 1956.

**Trichacolus* Kieffer, 1912. In André, Spec. Hym. Eur. Alg. 11: 89, 107.

Type: *Anteris bilineatus* Thomson. Desig. by Muesebeck and
Walkley, 1956.

Delete from Catalog. No North American species known. Transf.
reticulata Fouts to *Psilanteris* Kieffer.

***Genus PSILANTERIS Kieffer**

Psilanteris Kieffer, Brotéria, Rev. Luso-Brasil., Zool. ser., 14: 177.

Type: *Anteris bicolor* Kieffer. Orig. desig.

Place in Scelioninae after *Paridris* Kieffer, p. 704.

reticulata (Fouts); n. comb. Transf. from *Anteris* Foerster, p. 704 (*teste*
Fouts, *in litt.*).

Genus HADRONOTUS Foerster, pp. 704-705

Hadronotellus Kieffer. Insert (ser. 2) before 11.

Genus LEPTOTELEIA Kieffer

(= *Baryconus* Foerster of Catalog, p. 705)

Delete original citation of *Baryconus* Foerster.

Genus CERATOTELEIA Kieffer

(= *Prosanteris* Kieffer, p. 704)

Prosanteris Kieffer. N. syn. (based on exam. of genotype by C. F. W.
Muesebeck).

marlattii (Ashmead). N. Mex.

Macroteleia ruskini Girault. N. syn. (based on exam. of type by C. F. W.
Muesebeck). Transf. from *Macroteleia*, p. 706.

Prosanteris nigriceps Ashmead. N. syn. (based on exam. of type by
C. F. W. Muesebeck). Transf. from *Prosanteris*, p. 704.

virginiensis (Ashmead), n. comb. Transf. with *Prosanteris*, p. 704.

Genus MACROTELEIA Westwood, p. 706

Macrotelia. Delete Schulz and following citation. Substitute Agassiz,
1846. Nomencl. Zool. Index Univer., p. 221.

ruskini Girault. N. syn. of *Ceratoteleia marlattii* (Ashmead), p. 705.

Genus STICTOTELEIA Kieffer, p. 706

**rugosus* (Provancher). Canada.

Paphagus rugosus Provancher, 1881. Nat. Canad. 12: 293. ♂. (Placed in
Stictoteleia on the authority of O. Peck, who has studied the type.)

Family PLATYGASTERIDAE

Genus ALLOTROPA Foerster, pp. 707-708

**merrilli* Muesebeck. Fla., La. Host: *Trionymus* sp. on bald cypress.

Allotropia merrilli Muesebeck, 1954. Brooklyn Ent. Soc. Bul. 49: 20.
♂ ♀.

utilis Muesebeck. B. C.

Genus ISOSTASIUS Foerster, p. 708

After Type, change "Desig. by Ashmead, 1893" to "By monotypy."

Genus ISOCYBUS Foerster, p. 709

Change type citation to *Platygaster grandis* Nees, 1834. Desig. by Ashmead, 1893 (*teste* Muesebeck and Walkley, 1956. U.S. Natl. Mus. Proc. 105: 362).

Genus AMITUS Haldeman, p. 709

**Elaptus* Forbes, 1885 (1884). Rept. Ill. State Ent. 14: 110.

Type: *Elaptus aleurodis* Forbes. By monotypy. Error for *Alaptus* Westwood to which Forbes wrongly considered his species to belong. *Elaptus* Forbes, moreover, is preocc.

Genus PLATYGASTER Latreille, pp. 710-715

Hypocampsis Foerster. Change type citation to *Hypocampsis hyalinata* Thomson, 1859. Desig. by Ashmead, 1903 (*teste* Muesebeck and Walkley, 1956. U. S. Natl. Mus. Proc. 105: 360).

**opaca* Ruthe. Europe, Iceland, Greenland.

Platygaster opacus Ruthe, 1859. Stettin. Ent. Zeit. 20: 313.

Genus LEPTACIS Foerster, pp. 716-718

Synopeas Foerster. After Type delete (*Synopeas*).

Anopedias Foerster. Change type citation to *Anopedias obscurus* Thomson, 1859. Desig. by Ashmead, 1903 (*teste* Muesebeck and Walkley, 1956. U. S. Natl. Mus. Proc. 105: 329).

Superfamily BETHYLOIDEA

Replaces the heading, Superfamily Chrysidoidea, p. 718.

Family CHRYSIDIDAE

Genus OMALUS Panzer, p. 718

iridescens (Norton). Hosts: *Diodontus trisulcus* (Fox), *Stigmus americanus* Pack.

sinuosus (Say). Change *purpurascens* to *purpuratus* Provancher, and p. 303 to 302; *purpurascens* is a *lapsus* on p. 303.

Genus ELAMPUS Spinola, p. 719

marginatus Patton. Delete entire ref. to *Elampus viridis* Provancher; this was a misdct. of the Cuban *viridis* Cresson.

viridicyaneus Norton. Host: *Psammaecius costalis* (Cr.).

Genus HEDYCHRIDIMUM Abeille de Perrin, p. 720

caeruleum (Norton). Change sp. heading from *coeruleum* to *caeruleum*.

dimidiatum (Say). Add parentheses to author's name in sp. heading.

fletcheri Bodenstein. Host: *Tachysphex* sp.

**semirufum* (Cockerell), n. comb. N. Mex. (Las Cruces).

Holopyga semirufa Cockerell, 1896. *Psyche* (sup.) 7: 17. ♀. (Gen. transf. based on type exam. by K. V. Krombein.)

Genus HEDYCHRUM Latreille, pp. 720-721

violaceum Brullé. Host: Dug from nest of *Cerceris architis* Mick. in ground.

CHRYSID subgenus CHRYSURA Dahlbom, p. 721

smaragdicolor Walker. *Anthophora occidentalis* Cr.

CHRYSID subgenus CHRYSOGONA Foerster, pp. 721-722

faceta Aaron. Transf. to *Chrysis* (*Ceratochrysis*).

**unita* Mocsáry. Tex., Calif.; Mexico.

Chrysis (*Olochrysis*) *unita* Mocsáry, 1889. *Monog. Chrysid.*, p. 211. ♀

verticalis Patton. Host: *Trypoxylon* (*Trypargilum*) sp.

CHRYSID subgenus DICHRYSID Lichtenstein, p. 722

**annulipes* (Mocsáry), n. comb. Calif.

Spintharis annulipes Mocsáry, 1911. *Mus. Nat. Hungaric. Ann.* 9: 462. ♂.

**nearctica* (Mocsáry), n. comb. Ariz.

Spintharis nearctica Mocsáry, 1911. *Mus. Nat. Hungaric. Ann.* 9: 462. ♀.

quadri-tuberculata Cameron. Transf. to *Chrysis* (*Ceratochrysis*).

***CHRYSID subgenus CERATOCHRYSID Cooper**

Chrysis subg. *Ceratochrysis* Cooper, 1952. *Amer. Ent. Soc. Trans.* 78: 138.

Type: *Chrysis* (*Ceratochrysis*) *enhuycki* Cooper. Orig. desig.

Taxonomy: Cooper, 1952. *Amer. Ent. Soc. Trans.* 78: 137-148.

Place after *Chrysis* subg. *Dichrysis* Lichtenstein, p. 722.

**enhuycki* Cooper. N. Y., N. J., Va., Mo., Ariz. Reared from sumach twigs.

Chrysis (*Ceratochrysis*) *enhuycki* Cooper, 1952. *Amer. Ent. Soc. Trans.* 78: 140, figs. 3, 5, 6, 8, 9. ♀ ♂.

faceta Aaron. Tex., N. Mex., Colo., Calif. Transf. from *Chrysis* (*Chrysogona*), p. 722.

quadri-tuberculata Cameron. Tex.; Mexico, El Salvador. Transf. from *Chrysis* (*Dichrysis*), p. 722.

CHRYSID subgenus TRICHRYSID Lichtenstein, p. 722

parvula Fabricius. Hosts: *Trypoxylon rubro-cinctum* Pack, *T. clavatum* Say.

CHRYSID subgenus CHRYSID Linnaeus, pp. 722-725

alabamensis Mocsáry. D. C., Va., N. C., Ga., Fla. Host: *Podium carolina* Roh.

chalcopyga Mocsáry. Wis., N. Y., W. Va. Hosts: *Ryeghium f. foraminatum* (Sauss.), *Symmorphus c. cristatus* (Sauss.), *Ancistrocerus a. antilope* (Panz.)

coerulans Fabricius. Hosts: *Ancistrocerus a. antilope* (Panz.), *A. t. tigris* (Sauss.), *A. c. catskill* (Sauss.), *Ryeghium f. foraminatum* (Sauss.).

conica Brullé. Host: *Eumenes* sp.

**fuscipennis* Brullé. Introduced in D. C., Md., Va.; Hawaii; Palaearctic, Oriental, Australian. Hosts: *Eumenes conica* (F.) in India, *Sceliphron* spp. in Japan.

Chrysis fuscipennis Brullé, 1846. *Hist. Nat. Ins. Hym.*, v. 4, p. 38. ♀.

Chrysis erratica Abeille de Perrin, 1887. *In* Buysson, *Rev. d'Ent.* 6: 189.

♂ ♀.

Chrysis pulchellus Cameron, 1888. Manchester Lit. and Phil. Soc. Mem. and Proc. 26: 126. Preocc.

Taxonomy: Krombein, 1956. Ent. Soc. Wash. Proc. 58: 275.

pellucidula Aaron. Wis. Host: *Trypoxylon rubro-cinctum* Pack.

provancheri Schulz. Change Canad. Ent. to Nat. Canad. in orig. cit. of *aurichalcea* Provancher.

CHRYISIS subgenus PYRIA Lepeletier and Serville, p. 725

fabricii Mocsáry. Hosts: *Rygchium megaera* (Lep.), *R. foraminatum apokense* (Robt.).

**lateralis* Brullé. D. C., Ga., Fla., Tex.; possibly introduced from South America.

Chrysis lateralis Brullé, 1846. Hist. Nat. Ins. Hym., v. 4, p. 26. ♀ ♂.

smaragdula Fabricius. Host: *Monobia quadridens* (L.).

texana Gribodo. Fla.

Genus STILBUM Spinola, p. 725

This appears not to be established in North America, and the single specimen in the Provancher collection, supposedly collected in Ontario, may have been either a stray or erroneously labeled.

Genus PARNOPES Latreille, pp. 725-726

The generic name is masculine, and all specific names requiring agreement in gender should be changed.

aglaspidula Melander and Brues. Syn. of *chrysoprasinus* Smith.

chrysoprasinus Smith. Conn. south to Fla., Mich., Wis., Ill., Tex.

Parnopes aglaspidula Melander and Brues, n. syn. (teste K. V. Krombein, based on notes furnished by I. H. H. Yarrow on type of *chrysoprasinus* and study of *Meredosia*, Ill., cotype of *aglaspidula*).

edwardsii (Cresson). Host: *Bembix comata* Prkr.

Biology: Bohart and MacSwain, 1940. Pan-Pacific Ent. 16: 92-93.

hageni Viereck. Calif. Host: *Bembix comata* Prkr.

westcottii Melander and Brues. Host: *Microbembex nigrifrons* (Prov.).

Biology: Bohart and MacSwain, 1940. Pan-Pacific Ent. 16: 92-93.

Subfamily CLEPTINAE

Replaces the heading, Family **Cleptidae**, p. 726.

***Subfamily AMISEGINAE**

Taxonomy: Krombein, 1957. Amer. Ent. Soc. Trans. 82: 147-215, 4 pls. (gen. reclassification).

Insert this heading above **Mesitiopterus** Ashmead, p. 726.

Genus MESITIOPTERUS Ashmead, p. 726

kahlui Ashmead. N. Y. south to N. C., Wis., Minn., Kans.

***Subfamily ADELPHINAE**

Insert this heading with component genus after **Mesitiopterus** Ashmead, p. 726.

***Genus ADELPHÉ Mocsáry**

Adelphé Mocsáry, 1890. Termes. Fuzetek 13: 46.

Type: *Adelphé mexicana* Mocsáry. Monotypic and by design. of Ashmead, 1902.

**Pseudepyris* Ducke, 1902. Ztschr. Hym. Dipt. 2: 204.

Type: *Pseudepyris paradoxa* Ducke. Monotypic and by design. of Bodenstein, 1939.

**Adelpha* Schulz, 1906. *Spolia Hym.*, p. 153. Proposed unnecessarily for *Adelphe* Mocsáry. Preocc. by Hübner, 1819.

**Parachrysis* Kieffer, 1910. *Ann. Soc. Ent. France* 78: 287. Preocc. by Gribodo, 1879.

Type: *Parachrysis metallica* Kieffer. Monotypic and by present desig.

A teratological specimen of an apparently new species was collected in Royal Palm Hammock, Collier County, Florida.

Superfamily BETHYLOIDEA, p. 726

Delete this heading. It replaces Superfamily Chrysidoidea, p. 718.

Family BETHYLIDAE

Genus CEPHALONOMIA Westwood, p. 727

utahensis Brues. Calif. Hosts: larvae of *Conophthorus lambertianae* Hopk., *C. ponderosae* Hopk.

Biology: Ruckes, 1956. *Pan-Pacific Ent.* 32: 184-185, 1 fig.

Genus LAELIUS Ashmead, p. 728

trogodermais Ashmead. Va. (Arlington), Ariz. Host: *Trogoderma parabile* Beal, *T. simplex* Jayne.

Biology: Howard, 1901. *The Insect Book*, pp. 34-36, fig. 18.—Krombein, 1955. *Brooklyn Ent. Soc. Bul.* 50: 13-14.

voracis Muesebeck. Va. (Arlington).

Biology: Back, 1940. *Ent. Soc. Wash. Proc.* 42: 110-113, 1 pl.

Genus EPYRIS Westwood, pp. 728-729

californicus (Ashmead). Utah.

**deficiens* Krombein. W. Va. (Lost River St. Pk.).

Epyris deficiens Krombein, 1956. *Ent. Soc. Wash. Proc.* 58: 156, fig. 3. ♀.

formicoides (Provancher). Que. (Hull).

Bethylus formicoides Provancher of Catalog, p. 734. (Transf. based on type exam. by K. V. Krombein).

Genus PRISTOCERA Klug, p. 731

armifera (Say).

**Scleroderma contracta* Westwood, 1839. *Ent. Soc. London Trans.* 2: 169, pl. 12, fig. 11. ♀. (Syn. by Ashmead, 1893. *U. S. Natl. Mus. Bul.* 45: 34).

atra Klug.

**Scleroderma thoracica* Westwood, 1839. *Ent. Soc. London Trans.* 2: 167. ♀. (Syn. by Ashmead, 1893. *U. S. Natl. Mus. Bul.* 45: 33).

**contracta* (Westwood). Syn. of *armifera* (Say).

**thoracica* (Westwood). Syn. of *atra* Klug.

Genus PSEUDISOBRACHIUM Kieffer, pp. 731-732

**carbonarius* (Ashmead), n. comb. D. C.

Epyris carbonarius Ashmead, 1893. *U. S. Natl. Mus. Bul.* 45: 59, pl. 4, fig. 4. ♂. (Transf. based on type exam. by K. V. Krombein).

prolongatus (Provancher), n. comb. Que. (Cap Rouge).

Bethylus prolongatus Provancher of Catalog, p. 734. (Transf. based on type exam. by K. V. Krombein).

Genus DISSOMPHALUS Ashmead, p. 732

?**Ecitopria* Wasmann, 1899. *Zoologica*, h. 26, p. 55.

Type: *Ecitopria crassicornis* Wasmann. Monotypic.

?**Psilobethylus* Kieffer, 1906. In André, Spec. Hym. Eur. Alg., v. 9, p. 461.

Type: *Psilobethylus luteus* Kieffer. Monotypic.

Revision: Evans, 1954. Ent. Soc. Wash. Proc. 56: 288-309, 21 figs.

**altivolans* Evans. La. (Tallulah).

Dissomphalus altivolans Evans, 1954. Ent. Soc. Wash. Proc. 56: 307, figs. 7, 21. ♂.

apertus Kieffer. Mexico north to Kans., Ohio, and N. J.

**barberi* Evans. Md. (Plummer's Is.).

Dissomphalus barberi Evans, 1954. Ent. Soc. Wash. Proc. 56: 298, figs. 3, 10, 16, 19. ♂ ♀.

**foveolatus* (Brown and Cheng). Md., Va., Miss., Ariz.

Psilobethylus foveolatus Brown and Cheng, 1952. Psyche 58: 143, fig. 1. ♀.

**kansanus* Evans. Kans. (Lawrence).

Dissomphalus kansanus Evans, 1954. Ent. Soc. Wash. Proc. 56: 302, figs. 4, 11, 17. ♂.

**lucidus* (Brown and Cheng). Syn. of *xanthopus* Ashmead.

**nigrescens* Evans. Tex., La., Ala.

Dissomphalus nigrescens Evans, 1954. Ent. Soc. Wash. Proc. 56: 308, figs. 8, 14. ♂.

xanthopus Ashmead. U. and L. Austr. Zones east of Rockies; Mexico (Vera Cruz, Tabasco).

**Psilobethylus lucidus* Brown and Cheng, 1952. Psyche 58: 146, figs. 2, 3. ♀.

Genus BETHYLUS Latreille, p. 732

**castaneus* Kieffer. U. S.

Bethylus castaneus Kieffer, 1907. Berlin. Ent. Ztschr. 51: 295. ♀.

decipiens (Provancher), n. comb. Que., Maine.

Gonatopus decipiens Provancher, of Catalog, p. 1038. (Transf. based on type exam. by K. V. Krombein).

Genus PERISIEROLA Kieffer, pp. 733-734

**breviceps* Krombein. Calif. (Tracy). Host: *Myelois venipars* Dyar, larva.

Perisierola breviceps Krombein, 1954. Pan-Pacific Ent. 30: 259. ♀.

**distinguenda* (Kieffer), n. comb. Calif.; Nicaragua.

Parasierola cellularis "Say", Kieffer, 1906. Berlin. Ent. Ztschr. 50: 254. ♀. Misdet.

Parasierola distinguenda Kieffer, 1908. Gen. Ins., fasc. 76, p. 14. N. name for *cellularis* "Say", Kieffer.

Unrecognized Species of Bethylidae, p. 734

Bethylus formicoides Provancher. Transf. to *Epyris*, p. 729.

Bethylus prolongatus Provancher. Transf. to *Pseudisobrachium*, p. 731.

Family DRYINIDAE

Transf. from pp. 1034-1043.

Taxonomy: Richards, 1953. Roy. Ent. Soc. London Trans. 104: 51-70 (keys to some genera of Anteonini and Dryinini).

*Genus THAUMATODRYINUS Perkins

Thaumatodryinus Perkins, 1950. Hawaii. Sugar Planters' Assoc. Expt. Sta., Div. Ent. Bul. 1(1): 58.

Type: *Thaumatodryinus koebelei* Perkins. By monotypy.

Taxonomy: Krombein, 1952. Amer. Ent. Soc. Trans. 78: 97-99, 1 pl. (revis. gen. diag. and key to spp.)

Place in Dryinini after *Tetradyinus* Kieffer, p. 1035.

**perkinsi* Krombein. Va. (Westmoreland St. Pk.).

Thaumatomydryinus perkinsi Krombein, 1952. Amer. Ent. Soc. Trans. 78: 99, figs. 2, 2a, 2b. ♀.

*Tribe GONATOPODINI

This tribal heading should be inserted after the genus *Perodryinus* Perkins, p. 1035.

*Genus PRODRYINUS Kieffer

(= *Psilodryinus* Kieffer, p. 1035)

Prodryinus Kieffer, 1906. In André, Spec. Hym. Eur. Alg., v. 9, p. 497.

Type: *Dryinus brachycerus* Kieffer. Orig. desig.

Richards (1953. Roy. Ent. Soc. London. Trans. 104: 61) placed *Psilodryinus* as a synonym of *Prodryinus*, stating that the latter name had priority on the page. Actually, the reverse is true, but Richards is the first reviser so his action stands. He suggested further, that *Prodryinus* is only subgenerically distinct from *Neodryinus* Perkins, 1905, but they are being considered as distinct genera until the world fauna of Dryinidae is better known.

Genus CHALCOGONATOPUS Perkins, p. 1037

**argyrias* Perkins. Ariz. (Nogales).

Chalcogonatopus argyrias Perkins, 1907. Hawaii. Sugar Planters' Assoc. Expt. Sta., Div. Ent. Bul. 4: 20. ♀.

**californicus* (Ashmead), n. comb. Calif.

Gonatopus californicus Ashmead, 1893. U. S. Natl. Mus. Bul. 45: 85. ♀.

**echo* Perkins. Ariz. (Nogales).

Chalcogonatopus echo Perkins, 1907. Hawaii. Sugar Planters' Assoc. Expt. Sta., Div. Ent. Bul. 4: 23. ♀.

**euprepes* Perkins. Ariz. (Nogales).

Chalcogonatopus euprepes Perkins, 1907. Hawaii. Sugar Planters' Assoc. Expt. Sta., Div. Ent. Bul. 4: 18. ♀.

Chalcogonatopus euprepes var. *a* Perkins, 1907. Hawaii. Sugar Planters' Assoc. Expt. Sta., Div. Ent. Bul. 4: 19. ♀.

Chalcogonatopus euprepes (!) Kieffer, 1914. Das Tierreich, Lief. 41, p. 99.

**euprepoides* Perkins. Ariz. (Nogales).

Chalcogonatopus euprepoides Perkins, 1907. Hawaii. Sugar Planters' Assoc. Expt. Sta., Div. Ent. Bul. 4: 19. ♀.

Chalcogonatopus euprepoides (!) Kieffer, 1914. Das Tierreich, Lief. 41, p. 99.

**flavifrons* (Ashmead). N. Y. (Albany).

Gonatopus flavifrons Ashmead, 1893. U. S. Natl. Mus. Bul. 45: 84, pl. 5, fig. 4. ♀.

**frequens* Perkins. Ariz. (Nogales).

Chalcogonatopus frequens Perkins, 1907. Hawaii. Sugar Planters' Assoc. Expt. Sta., Div. Ent. Bul. 4: 21. ♀.

**harpax* Krombein. W. Va. (Lost River St. Pk.).

Chalcogonatopus harpax Krombein, 1956. Ent. Soc. Wash. Proc. 58: 158, fig. 1. ♀.

**herbarum* Perkins. Ariz. (Nogales).

Chalcogonatopus herbarum Perkins, 1907. Hawaii. Sugar Planters' Assoc. Expt. Sta., Div. Ent. Bul. 4: 23. ♀.

**koebelei* Perkins. Ariz. (Nogales).

Chalcogonatopus koebelei Perkins, 1907. Hawaii. Sugar Planters' Assoc. Expt. Sta., Div. Ent. Bul. 4: 26. ♀.

**leptias* Perkins. Ariz. (Nogales).

Chalcogonatopus leptias Perkins, 1907. Hawaii. Sugar Planters' Assoc. Expt. Sta., Div. Ent. Bul. 4: 17. ♀.

- ***niger** Fenton, emend. Iowa. Host: *Scaphoideus* sp., probably *immistus* Say.
Chalcogonatopus nigrus Fenton, 1924. Ohio Jour. Sci. 24: 193, fig. 3.
 ♀.
- ***paraleptias** Perkins. Ariz. (Nogales).
Chalcogonatopus paraleptias Perkins, 1907. Hawaii. Sugar Planters' Assoc. Expt. Sta., Div. Ent. Bul. 4: 18. ♀.
- ***perdebilis** Perkins. Ariz. (Nogales).
Chalcogonatopus perdebilis Perkins, 1907. Hawaii. Sugar Planters' Assoc. Expt. Sta., Div. Ent. Bul. 4: 27. ♀.
- ***pseudochromus** Perkins. Ohio (Columbus).
Chalcogonatopus (Eugonatus) pseudochromus Perkins, 1905. Hawaii. Sugar Planters' Assoc. Expt. Sta., Div. Ent. Bul. 1: 48. ♀.
- ***rapax** Perkins. Ariz. (Nogales). Host: "Jassid" nymph on willow.
Chalcogonatopus rapax Perkins, 1907. Hawaii. Sugar Planters' Assoc. Expt. Sta., Div. Ent. Bul. 4: 20. ♀.
- ***simulator** Perkins. Ariz. (Nogales).
Chalcogonatopus simulator Perkins, 1907. Hawaii. Sugar Planters' Assoc. Expt. Sta., Div. Ent. Bul. 4: 26. ♀.
- ***solitarius** Perkins. Ariz. (Nogales).
Chalcogonatopus solitarius Perkins, 1907. Hawaii. Sugar Planters' Assoc. Expt. Sta., Div. Ent. Bul. 4: 22. ♀.
- ***unicus** Perkins. Ariz. (Nogales).
Chalcogonatopus unicus Perkins, 1907. Hawaii. Sugar Planters' Assoc. Expt. Sta., Div. Ent. Bul. 4: 25. ♀.
- ***xestocephalus** Perkins. Ariz. (Nogales).
Chalcogonatopus xestocephalus Perkins, 1907. Hawaii. Sugar Planters' Assoc. Expt. Sta., Div. Ent. Bul. 4: 24. ♀.

Genus GONATOPUS Ljungh, pp. 1037-1038

ashmeadi Kieffer. Fla.

decipiens Provancher. Transf. to *Bethylus*, p. 732.

Genus DEINODRYINUS Perkins, p. 1041

atriceps (Brues). Va., W. Va.

grandis (Brues). W. Va.

henshawi (Ashmead). Wis.

Genus APHELOPUS Dalman, pp. 1042-1043

albopictus Ashmead. Va.

Family TRIGONALIDAE

Taxonomy: Townes, 1956. U. S. Natl. Mus. Proc. 106: 295-304, figs.

Genus POECILOGONALOS Schulz, p. 735

costalis (Cresson). S. C.

Genus LYCOGASTER Shuckard, p. 735

Author name misspelled Schuckard in Catalog.

nevadensis (Cresson). A subsp. of **pullata** Shuckard.

pullata nevadensis (Cresson), changed status. S. Dak., Oreg.

Lycogaster nevadensis (Cresson). A subsp. of **pullata** (teste Townes, 1956. U. S. Natl. Mus. Proc. 106: 298, 300).

pullata pullata Shuckard, changed status. Ohio, N. C. Host: *Ryeghium f. foraminatum* (Sauss.).

Lycogaster pullata Shuckard. A subsp. of **pullata** (teste Townes, 1956. U. S. Natl. Mus. Proc. 106: 298, 299).

Biology: Cooper, 1954. Wash. Ent. Soc. Proc. 56: 283-288, figs.

Superfamily SCOLIOIDEA

Family TIPHIIDAE

Genus TIPHIA Fabricius, pp. 735-739

**dryophila* Krombein. N. C. (Kill Devil Hills).

Tiphia dryophila Krombein, 1953. Wasmann Jour. Biol. 10: 301. ♂ ♀.

floridana Robertson.

Taxonomy: Krombein, 1953. Wasmann Jour. Biol. 10: 305.

jaynesi Allen. W. Va.

subcarinata Malloch. W. Va., N. C.

waldenii Viereck. Change spelling in first citation from *waldenii* to *waldonii*.

NEOTIPHIA subgenus NEOTIPHIA Malloch, p. 739

waltoni Allen. Ariz.

NEOTIPHIA subgenus KROMBEINIA Pate, p. 739

sulcata (Roberts). Ariz.

Genus MYZINUM Latreille, pp. 741-742

**namea fulviceps* Cameron, n. status. South. Ariz. to Guatemala.

Myzine fulviceps Cameron, 1893. Biol. Cent.-Amer., Hym., v. 2, p. 248, pl. 12, fig. 20. ♀. A subsp. of *namea* (Fabricius) (*teste* K. V. Krombein, who has in MS a synopsis of Mexican *Myzinum*).

namea namea (Fabricius), changed status.

Myzinum namea (Fabricius) of Catalog. Reduced to subsp. rank (*teste* K. V. Krombein).

Genus BRACHYCISTIS Fox, pp. 742-745

inaequalis Fox.

**Brachycistis nocticola* Bradley, 1917. Amer. Ent. Soc. Trans. 43: figs. 19, 39, 40. ♂. (Syn. by Krombein, 1954. Ent. Soc. Wash. Proc. 56: 85).

**nocticola* Bradley. Syn. of *inaequalis* Fox.

triangularis Fox. Calif.

METHOCHA subgenus METHOCHA Latreille, p. 747

**formosa* Krombein. Fla. (Arcadia).

Methocha (Methocha) formosa Krombein, 1954. Amer. Ent. Soc. Trans. 80: 2, figs. 1, 3. ♀.

MYRMOSA subgenus MYRMOSA Latreille, pp. 747-748

unicolor Say.

Biology: Krombein, 1956. Ent. Soc. Wash. Proc. 58: 154 (mating behavior).

Genus MYRMOSULA Bradley, p. 748

rutilans (Blake). Host: *Nomadopsis scutellaris* (Fwlr.)

Family MUTILLIDAE

Genus PHOTOMORPHUS Viereck, pp. 751-752

**Photomorphus* subg. *Photomorphina* Schuster, 1952. Brooklyn Ent. Soc. Bul. 47: 53.

Type: *Photomorphus (Photomorphina) aurifera* Schuster. Orig. desig.

Taxonomy. Krombein, 1954. Amer. Ent. Soc. Trans. 80: 6-7 (key to eastern ♀♀).

alogus Viereck. Fla.

Taxonomy: Krombein, 1954. Amer. Ent. Soc. Trans. 80: 3. ♀.

***aurifera** Schuster. Ariz. (Douglas). (*Photomorphina*)

Photomorphus (*Photomorphina*) **aurifera** Schuster, 1952. Brooklyn Ent. Soc. Bul. 47: 53. ♂.

clandestinus (Viereck). Transf. from *Odontophotopsis*, p. 756 (*teste* Schuster, 1952. Brooklyn Ent. Soc. Bul. 47: 56). (*Photomorphina*)

***juanita** Schuster. Tex. (McAllen, Brownsville). (*Photomorphina*)

Photomorphus (*Photomorphina*) **juanita** Schuster, 1952. Brooklyn Ent. Soc. Bul. 47: 57. ♂.

paula (Bradley). Fla. Transf. from *Odontophotopsis*, p. 757 (*teste* Krombein, 1954. Amer. Ent. Soc. Trans. 80: 4. ♀).

Genus *SPHAEROPHTHALMA* Blake, p. 752

contracta (Blake), n. comb. Transf. from *Photopsis* Blake, p. 754 (*teste* W. E. Ferguson who has examined the type).

Genus *PHOTOPSIS* Blake, pp. 753-756

acontia (Fox). Tex., Ariz. Change date of Melander paper from 1904 to 1903.

anthophorae (Ashmead). Host: *Melecta c. californica* Cr.

auraria (Blake). Host: *Diadasia bituberculata* (Cr.).

**Photopsis nebulosus* Blake, 1886. Amer. Ent. Soc. Trans. 13: 275. ♂.
(Syn. by Linsley and MacSwain, 1952. Pan-Pacific Ent. 28: 132.)

***blakeii** (Fox). Calif.; Baja Calif.

Photopsis Blakeii Fox, 1893. Calif. Acad. Sci. Proc. (2) 4: 6. ♂.

Mutilla gautschii Dalla Torre, 1897. Cat. Hym. 8: 43. N. name erroneously proposed for *blakeii* Fox, thought to be preocc. by Cameron, 1894.

***ceyx** (Fox), n. comb. Calif. (San Diego Co.); Baja Calif.

Mutilla ceyx Fox, 1899. Amer. Ent. Soc. Trans. 25: 262. ♂.

contracta (Blake). Transf. to *Sphaerophthalma* Blake, p. 752.

danaus (Blake). Transf. from *Odontophotopsis*, p. 756 (*teste* W. E. Ferguson who has examined the type).

jason (Fox). Trans. to *Odontophotopsis*, p. 757.

melanderi Baker. Host: *Dianthidium curvatum sayi* Ckll.

nanula (Dalla Torre). Idaho. Host: *Tachysphex* sp.

***nebulosa** Blake. Syn. of **auraria** (Blake).

seminanula Rohwer. In orig. cit change p. 103 to p. 130.

virguncula (Blake). Species was described originally in *Sphaerophthalma* (!), not *Mutilla*.

Genus *ODONTOPHOTOPSIS* Viereck, pp. 756-758

argentipilis (Provancher), n. comb. Transf. from Mutillidae of Uncertain Generic Position, p. 773 (*teste* K. V. Krombein who has examined the type). Published type locality Fla. is erroneous.

***biramosa** Schuster. Calif. (Holtville).

Odontophotopsis (*Odontophotopsis*) **biramosa** Schuster, 1952. Brooklyn Ent. Soc. Bul. 47: 43, fig. 1. ♂.

clandestina Viereck.. Transf. to *Photomorphus*, p. 751.

concolor (Cresson). Host: *Tachysphex* sp.

danaus (Blake). Transf. to **Photopsis**, p. 754.

jason (Fox), n. comb. Transf. from **Photopsis**, p. 754 (*teste* W. E. Ferguson who has examined the type).

paula (Bradley). Transf. to **Photomorphus**, pp. 751-752.

***setifera** Schuster. South. Calif., Ariz.

Odontophotopsis (Odontophotopsis) setifera Schuster, 1952. Brooklyn Ent. Soc. Bul. 47: 47. ♂.

Genus **PSEUDOMETHOCA** Ashmead, pp. 758-761

aetis (Fox). A subsp. of **sanbornii** (Blake).

anthracina (Fox).

Pseudomethoca harpalyce (Fox) (*teste* Hurd, 1951. Pan-Pacific Ent. 27: 156).

frigida frigida (Smith), changed status.

Pseudomethoca frigida (Smith) of Catalog. Reduced to subsp. rank (*teste* Krombein, 1954. Amer. Ent. Soc. Trans. 80: 7, fig. 6).

***frigida torrida** Krombein. Fla.

Pseudomethoca frigida torrida Krombein, 1954. Amer. Ent. Soc. Trans. 80: 7, fig. 7. ♀ ♂.

harpalyce (Fox). Syn. of **anthracina** (Fox).

propinqua (Cresson). Host: *Nomia m. melanderi* Ckll.

sanbornii aetis (Fox), changed status.

Pseudomethoca aetis (Fox) of Catalog. Reduced to subsp. rank (*teste* Krombein, 1953. Wasmann Jour. Biol. 10: 308).

sanbornii sanbornii (Blake), changed status.

Pseudomethoca sanbornii (Blake) of Catalog. Reduced to subsp. rank (*teste* Krombein, 1953. Wasmann Jour. Biol. 10: 308).

toumey (Fox). Mexico (Sonora).

Genus **DASYMUTILLA** Ashmead, pp. 761-770

Taxonomy: Hurd, 1951. Calif. Ins. Survey Bul. 1: 89-118, 1 pl. (Calif. spp.)

atricauda Mickel. Ariz.

aureola (Cresson). Hosts: *Anthophora stanfordiana* Ckll., *Melissodes* sp.

asopus bexar (Blake). Host: *Dianthidium curvatum sayi* Ckll.

beameri Mickel. N. syn. of **rubicunda** Bradley, erroneously considered a syn. of **cypris** (Blake).

bioculata (Cresson). Host: ? *Bembix spinolae* Lep.

californica var. **elio** (Blake). Calif., Nev.

chattahoochei Bradley.

Taxonomy: Krombein, 1954. Amer. Ent. Soc. Trans. 80: 9, fig. 5. ♂.

cypris (Blake). Delete **rubicunda** Bradley, valid sp., from syn.

clytemnestra (Fox). Delete Oreg.; range is south. Calif.

coccineohirta (Blake). Host: *Cerceris californica* Cr., ? *Bembix occidentalis beutenmülleri* Fox.

creusa (Cresson). Host: *Bembix spinolae* Lep.

eminentia Mickel. Baja Calif.

errabunda Mickel. Calif.

foxi (Cockerell). Calif. Host: *Diadasia diminuta* (Cress.).

Biology: Cockerell, 1896. Nature 54: 461.

fulvohirta (Cresson). Host: *Diadasia enavata* (Cr.), *Megachile perihirta* Ckll.
gloriosa (Saussure). Baja Calif., Mexico.

interrupta Banks.

Taxonomy: Krombein, 1953. Wasmann Jour. Biol. 10: 310.

klugii (Gray). Host: ? *Sphecius grandis* (Say).

Biology: Bradley, 1920. Ent. News 31: 112-113.

magna (Cresson). Baja Calif., Mexico.

magnifica Mickel. Baja Calif., Mexico.

mutata (Blake).

Taxonomy: Krombein, 1953. Wasmann Jour. Biol. 10: 310.

nocturna Mickel. Nev.

occidentalis comanche (Blake). Ariz.

paenulata Mickel. Calif.

phoenix (Fox). Host: *Ptilothrix sumichrasti* (Cr.).

pseudopappus (Cockerell). Calif.

rubicunda Bradley. Cent. Fla. A valid sp., not a syn. of *cypripis* (Blake).

Dasymutilla beameri Mickel of Catalog, n. syn. (teste R. M. Schuster who has examined types of both species).

sackenii (Cresson). Baja Calif.

satanas Mickel. Baja Calif.

scitula Mickel. Nev., Calif.

ursula (Cresson). Calif. Host: *Bembix spinolae* Lep.

vesta sappho (Fox). Host: *Bembix cinerea* Handl.

vesta vesta (Cresson). Host: *Nomia melanderi melanderi* Ckll.

Genus **LOMACHAETA** Mickel, p. 770

variegata Mickel. Host: *Solierella* sp.

TIMULLA subgenus **TIMULLA** Ashmead, pp. 770-772

euterpe (Blake). N. C. (Kill Devil Hills).

leona (Blake). Host: ? *Bembix troglodytes* Handl.

rufosignata (Bradley). N. C. (Kill Devil Hills).

Taxonomy: Krombein, 1953. Ent. Soc. Wash. Proc. 55: 128. ♀.

Genus **EPHUTA** Say, pp. 772-773

Revision: Schuster, 1951. N. Y. Ent. Soc. Jour. 59: 1-43, 5 pls. (Part I containing only gen. diag. and key to spp.).

***albiceps** Schuster. Tex. (Tyler).

Ephuta albiceps Schuster, 1951. N. Y. Ent. Soc. Jour. 59: 31 (in key). ♀.

***argenteiceps** Schuster. Calif.

Ephuta californica Schuster, 1951. N. Y. Ent. Soc. Jour. 59: footnote on p. 25. ♂. N. syn. (On p. 15 Schuster states that there is only one sp. in Calif., and in key to ♀ ♀ *argenteiceps* is the only sp. stated to be from Calif.).

Ephuta argenteiceps Schuster, 1951. N. Y. Ent. Soc. Jour. 59: 26, 32 (in key). ♂ ♀.

***auricapitis** Schuster. Tex. (Edinburgh).

Ephuta auricapitis Schuster, 1951. N. Y. Ent. Soc. Jour. 59: 31 (in key). ♀.

***baboquivari** Schuster. Ariz. (Baboquivari Mts.)

Ephuta baboquivari Schuster, 1951. N. Y. Ent. Soc. Jour. 59: 31 (in key), figs. 39, 41. ♀.

battlei battlei Bradley, changed status. Coastal N. C., Ga., Fla.

Ephuta battlei Bradley. Reduced to subsp. rank (*teste* Schuster, 1951. N. Y. Ent. Soc. Jour. 59: 29, figs. 5, 44).

***battlei confusa** Schuster. Piedmont and west. coastal plain, N. C., Ga., Ala.

Ephuta battlei confusa Schuster, 1951. N. Y. Ent. Soc. Jour. 59: 29 (in key), fig. 44. ♂.

***battlei microcellaria** Schuster. N. J. (Cape May).

Ephuta battlei microcellaria Schuster, 1951. N. Y. Ent. Soc. Jour. 59: 29 (in key), fig. 44. ♂.

***battlei transitionalis** Schuster. Transit. and U. Austr. Zones, Mass. to Va., Ohio.

Ephuta battlei transitionalis Schuster, 1951. N. Y. Ent. Soc. Jour. 59: 28 (in key), fig. 44. ♂.

***californica** Schuster. Syn. of **argenteiceps** Schuster.

***cephalotes** Schuster. N. Dak., S. Dak., Wyo., Ariz., west. Tex.

Ephuta cephalotes Schuster, 1951. N. Y. Ent. Soc. Jour. 59: 24 (in key), figs. 10, 20, 46. ♂.

***coloradella** Schuster. Colo.

Ephuta coloradella Schuster, 1951. N. Y. Ent. Soc. Jour. 59: 32 (in key). ♀.

conchate Mickel. N. Y., Mich., Ill., Iowa, S. Dak., Nebr., Kans.

Taxonomy: Schuster, 1951. N. Y. Ent. Soc. Jour. 59:32 (in key). ♀.

copano (Blake). Mexico.

Ephuta susura (Melander), n. syn. (*teste* R. M. Schuster who has examined both types).

***ecarinata ecarinata** Schuster. Tex.; Mexico.

Ephuta ecarinata ecarinata Schuster, 1951. N. Y. Ent. Soc. Jour. 59: 26 (in key). ♂.

***ecarinata neomexicana** Schuster. N. Mex.

Ephuta ecarinata neomexicana Schuster, 1951. N. Y. Ent. Soc. Jour. 59: 26 (in key). ♂.

***ecarinata pima** Schuster. Ariz.

Ephuta ecarinata pima Schuster, 1951. N. Y. Ent. Soc. Jour. 59: 26 (in key). ♂.

***eurygnathus** Schuster. N. C. (Southern Pines).

Ephuta eurygnathus Schuster, 1951. N. Y. Ent. Soc. Jour. 59: 29 (in key), fig. 11. ♂.

***floridana dietrichi** Schuster. Ala., Miss.

Ephuta floridana dietrichi Schuster, 1951. N. Y. Ent. Soc. Jour. 59: 32 (in key), figs. 35, 36. ♀.

***floridana floridana** Schuster. Fla.

Ephuta floridana floridana Schuster, 1951. N. Y. Ent. Soc. Jour. 59: 25, 32 (in key). ♂ ♀.

***grisea fuscosericea** Schuster. Alta., Mont., Utah, N. Dak.

Ephuta grisea fuscosericea Schuster, 1951. N. Y. Ent. Soc. Jour. 59:27 (in key), figs. 14, 15, 42. ♂.

grisea grisea Bradley, changed status. Delete Mont. and N. Dak. from range.

Ephuta grisea Bradley of Catalog, in part. Reduced to subsp. rank (*teste* Schuster, 1951. N. Y. Ent. Soc. Jour. 59: 27, fig. 21).

***margueritae margueritae** Schuster. Fla.

Ephuta margueritae margueritae Schuster, 1951. N. Y. Ent. Soc. Jour. 59: 25, 30 (in key), figs. 17, 46. ♂ ♀.

***margueritae xanthocephala** Schuster. Pa., N. C., Tenn.

Ephuta margueritae xanthocephala Schuster, 1951. N. Y. Ent. Soc. Jour. 59: 25, 30 (in key), figs. 25, 46. ♂ ♀.

- **minuta minuta* Schuster. Tex. (Brownsville, Fedor, College Sta.).
Ephuta minuta minuta Schuster, 1951. N. Y. Ent. Soc. Jour. 59: 33
 (in key). ♀.
- **modesta modesta* Schuster. Ariz. (Tempe).
Ephuta minuta modesta Schuster, 1951. N. Y. Ent. Soc. Jour. 59: 32
 (in key), figs. 31, 32. ♀.
- **ocellaria* Schuster. Syn. of *psephenophila* Schuster.
- pauxilla pauxilla* Bradley, changed status. Minn. to Ala., east to Maine and Fla. (Almost certainly the male of *puteola* (Blake).)
Ephuta pauxilla Bradley of Catalog, in part. Reduced to subsp. rank
 (*teste* Schuster, 1951, N. Y. Ent. Soc. Jour. 59: 29, figs. 1, 12, 37, 43).
- **pauxilla texanella* Schuster. Tex., La., Miss.
Ephuta pauxilla texanella Schuster, 1951. N. Y. Ent. Soc. Jour. 59: 29
 (in key), figs. 13, 43. ♂.
- **psephenophila* Schuster. Ga. (Stone Mt.)
Ephuta psephenophila Schuster, 1951. N. Y. Ent. Soc. Jour. 59: 25
 (in key). ♂.
 **Ephuta ocellaria* Schuster, 1951. N. Y. Ent. Soc. Jour. 59: 36, fig. 18.
 MS name changed to *psephenophila* (*teste* R. M. Schuster).
- rufisquamis* (André). South. Calif.
- **sabaliana fattigi* Schuster. Ga. (Tifton).
Ephuta sabaliana fattigi Schuster, 1951. N. Y. Ent. Soc. Jour. 59: 28
 (in key). ♂.
- **sabaliana sabaliana* Schuster. Fla.
Ephuta sabaliana sabaliana Schuster, 1951. N. Y. Ent. Soc. Jour. 59: 28
 (in key). ♂.
 Biology: Krombein, 1955. Ent. Soc. Wash. Proc. 57: 225-226.
- scrupea* (Say). N. J. south to Ga. and Ala., Mich., Wis., Ohio, W. Va., Mo., Ark., Tex. Host: *Phanagenia bombycina* (Cr.).
- **slossonae monochroa* Schuster. Tex. (Rock Island).
Ephuta slossonae monochroa Schuster, 1951. N. Y. Ent. Soc. Jour. 59: 34 (in key). ♀.
- slossonae slossonae* (Fox), changed status. Fla.
Ephuta slossonae (Fox). Reduced to subsp. rank (*teste* Schuster, 1951. N. Y. Ent. Soc. Jour. 59: 34).
- **spinifera* Schuster. N. J. to Ga.
Ephuta spinifera Schuster, 1951. N. Y. Ent. Soc. Jour. 59: 27, 34 (in key). ♂ ♀.
- **stenognatha psephenophora* Schuster. North. Fla.
Ephuta stenognatha psephenophora Schuster, 1951. N. Y. Ent. Soc. Jour. 59: 28. ♂.
- **stenognatha stenognatha* Schuster. Cent. and south. Fla.
Ephuta stenognatha stenognatha Schuster, 1951. N. Y. Ent. Soc. Jour. 59: 28 (in key), figs. 7, 8. ♂.
- susura* (Melander). Syn. of *copano* (Blake).
- tegulicia* Bradley. Ariz.
- **tentativa* Schuster. Ga. (Atlanta, Ochlochnee).
Ephuta tentativa Schuster, 1951. N. Y. Ent. Soc. Jour. 59: 34 (in key). ♀.
- **tumacacori* Schuster. Ariz. (Tumacacori Mts.).
Ephuta tumacacori Schuster, 1951. N. Y. Soc. Jour. 59: 30 (in key). ♀.

Mutillidae of Uncertain Generic Position, p. 773

Mutilla ajax, *M. floridana*, and *M. trisignata* supposedly from Florida and described by Blake from the Harris Collection are not North American.

Fox (Ent. News 9: 14, 1898) published on these three species and stated that *ajax* was a synonym of the African *Psammotherma flabellata* (Fabricius), *floridana* a synonym of the European *Dasylabris maura* (Linnaeus), and *trisinigata* a synonym of the European *D. arenaria* (Fabricius).

Sphaerophthalma (!) *argentipilis* Provancher. Transf. to *Odontophopsis*, p. 756.

Family RHOPALOSOMATIDAE

Genus RHOPALOSOMA Cresson, p. 773

Biology: Gurney, 1953. U. S. Natl. Mus. Proc. 103: 19-34, 3 pls.

Family SCOLIIDAE

Taxonomy: Hurd, 1952. Calif. Ins. Survey Bul. 1: 141-152, 2 pls. (Calif. spp.).

SCOLIA subgenus SCOLIA Fabricius, pp. 774-775

dubia monticola Cameron. Host: *Cotinis texana* Casey.

otomita Saussure. Calif. (Mojave and Colorado Deserts). Host: Scarabaeid larvae in debris of wood-rat nest.

CAMPSOMERIS subgenus CAMPSOMERIS Guerin, pp. 775-776

plumipes confluenta (Say). West. N. Y.

quadrinotata (Fabricius). Mass.

tolteca (Saussure). Change p. 140 to p. 410 in orig. cit. of *dives* Provancher.

Genus CAMPSOSCOLIA Betrem, p. 776

**Crioscolia* Bradley, 1950. Eos, Tomo extraord., p. 431.

Type: *Campsomeris* (*Trielis*) *flammicomma* Bradley. Orig. desig.

**Dasyscolia* Bradley, 1950. Eos, Tomo extraord., p. 431.

Type: *Tiphia ciliata* Fabricius. Orig. desig.

alcione (Banks). (*Crioscolia*)

flammicomma (Bradley). (*Crioscolia*)

octo-maculata hermione (Banks). Change subsp. heading from *octomaculata hermione* to *octo-maculata hermione*. (*Campsoscolia*)

octo-maculata octo-maculata (Say). Change subsp. heading from *octo-maculata octomaculata* to *octo-maculata octo-maculata*; in orig. cit. change spelling from *octomaculata* to *viii.maculata*. (*Campsoscolia*)

**Scolia octo-maculata* Say, 1825. American Entomology, pl. 29. Emend.

octo-maculata texensis (Saussure). Change subsp. heading from *octomaculata texensis* to *octo-maculata texensis*. (*Campsoscolia*)

pollenifera (Viereck). (*Campsoscolia*)

Family SAPYGIDAE

Genus FEDTSCHENKIA Saussure, p. 777

Taxonomy: Bradley, 1955. Ent. News 66: 230-233.

anthracina (Ashmead). Wash., Colo., N. Mex.

**Plesia* (*Myzine*) *nigropilosella* Cameron, 1908. Amer. Ent. Soc. Trans. 34: 237. ♀. (Syn. by Bradley, 1955. Ent. News 66: 232).

**nigropilosella* (Cameron). Syn. of *anthracina* (Ashmead).

Genus SAPYGA Latreille, pp. 777-778

centrata Say. W. Va. On bark of *Pinus* containing nests of *Hoplitis* (*Alcidamea*) *t. truncata* (Cr.).

louisii Krombein. N. J.

Family FORMICIDAE

Morphology: Wilson, 1953. Quart. Rev. Biol. 28: 136-156, 10 figs. (polymorphism).

Taxonomy: W. M. Wheeler, 1920. Psyche 27: 46-55, fig. 3 (subfamilies).
—W. L. Brown and Nutting, 1950. Amer. Ent. Soc. Trans. 75: 113-132, 2 pls. (wing venation).—W. L. Brown, 1954. Insectes Sociaux 1: 21-31, 1 fig.

Economics: O'Rourke, 1956. Insectes Sociaux 3: 107-118.

Subfamily DORYLINAE

Biology: Schneirla, 1943. N. Y. Ent. Soc. Jour. 51: 236.—Schneirla, 1944. Op. cit. 52: 153-192, 2 figs.—Schneirla, 1944. Amer. Phil. Soc. Proc. 87: 438-457, 3 figs.—Schneirla, 1945. Biol. Bul. 88: 166-193.—Schneirla, 1947. Amer. Mus. Novitates 1336: 1-20, 2 figs.—Schneirla, 1948. Zoologica (New York) 33: 89-112, 4 figs.—Schneirla, 1948. Sci. American 178: 16-23.—Schneirla, 1949. Amer. Mus. Nat. Hist. Bul. 94: 1-82, 6 figs., 2 pls.—Schneirla, (1949) 1950. (Mex.) Inst. de Biol. An. 20: 371-384, 2 figs.—Schneirla and R. Z. Brown, 1950. Amer. Mus. Nat. Hist. Bul. 95: 269-353, 8 figs., 1 pl.—Schneirla and R. Z. Brown, 1952. Zoologica (New York) 37: 5-32.—Schneirla, R. Z. Brown, and F. C. Brown, 1954. Ecol. Monog. 24: 269-296. (New World.) Schneirla, 1956. Insectes Sociaux 3: 49-69, illus.

Revisions: Borgmeier, 1953. Studia Entomologica 2: 1-51, 35 figs.—Borgmeier, 1955. Op. cit. 3: 1-716, 87 pls. (New World).

Genus NOMAMYRMEX Borgmeier

(= *Eciton* Subg. *Nomamyrmex* Borgmeier of Catalog, p. 779)

Raised to generic rank by Borgmeier, 1953 (Studia Entomologica 2: 4). Change type designation to *Eciton crassicornis* F. Smith = *Labidus esenbeckii* Westwood.

crassicornis (F. Smith). Delete.

**crassicornis mordax* (Santschi). Syn. of *esenbeckii wilsoni* (Santschi).

esenbeckii (Westwood). Delete.

esenbeckii wilsoni (Santschi). Tex.; Mexico, Costa Rica. Typical *esenbeckii* (Westwood) is South American.

Eciton (Nomamyrmex) esenbeckii Westwood of Catalog, in part. *E. esenbeckii wilsoni* is a subsp. of *esenbeckii* not a syn. (*teste* Borgmeier, 1953. Studia Entomologica 2: 13).

Eciton (Holopone) crassicornis mordax Santschi, 1928. Deut. Ent. Ztschr., p. 415. (Syn. by Borgmeier, 1955. Entomologica 3: 139.)

Genus LABIDUS Jurine

(= *Eciton* subg. *Labidus* Jurine of Catalog, p. 779)

Change type designation to "by monotypy."

coecus (Latreille). Change *um* to *us* in sp. heading.

Taxonomy: G. C. Wheeler, 1943. Ent. Soc. Amer. Ann. 36: 332, figs. 24-28 (larva).

Genus NEIVAMYRMEX Borgmeier

(= *Eciton* subg. *Neivamyrmex* Borgmeier of Catalog, p. 780)

Raised to generic rank by Borgmeier, 1950 (Rev. de Ent. 21: 624.)

**Woitkowskia* Enzmann, 1952. Iowa Acad. Sci. Proc. 59: 443.

Type: *Woitkowskia connectens* Enzmann = *Labidus walkerii* (Westwood). Orig. desig. (Syn. by Borgmeier, 1955. Studia Entomologica 3: 277.)

***andrei** (Emery). Ariz., N. Mex.; Mexico.

Eciton andrei Emery, 1901. Soc. Ent. Ital. Bol. 33: 53. ♂.

Eciton (Neivamyrmex) oslari W. M. Wheeler (syn. by Borgmeier, 1953. Studia Entomologica 2: 19).

arizonense (W. M. Wheeler). Syn. of **swainsonii** (Shuckard).

aztecus (Forel). Syn. of **pilosus mexicanum** (F. Smith).

californicus (Mayr). Change **um** to **us** in sp. heading.

Eciton (Neivamyrmex) californicum var. *obscura* Forel (syn. by Borgmeier, 1955. Studia Entomologica 3: 517). Preocc.

Biology: Mallis, 1938. Sci. Monthly 47: 220-226.

carolinensis (Emery). ? Ariz., N. Mex. Change **se** to **sis** in sp. heading.

commutatum of authors not Emery. Replaced by **fallax** Borgmeier.

***fallax** Borgmeier. Ariz., Kans., La., Tex.; Mexico.

Neivamyrmex fallax Borgmeier, 1953. Studia Entomologica 2: 48, figs. 31, 33. ♀.

Eciton (Neivamyrmex) commutatum of authors, not Emery of Catalog.

fuscipennis (W. M. Wheeler). Change **ne** to **nis** in sp. heading.

leonardi (W. M. Wheeler). Calif.; Lower Calif.

**Eciton (Acamatus) peninsulare* Mann, 1926. Psyche 33: 98. ♀. (Syn. by Borgmeier, 1953. Studia Entomologica 2: 10).

melanocephalus (Emery). Guatemala. Change **um** to **us** in sp. heading.

***microps** Borgmeier. Ariz. (Phoenix).

Neivamyrmex microps Borgmeier, 1955. Studia Entomologica 3: 298, 635, pl. 56, figs. 6, 10; pl. 80, fig. 4. ♂.

minor (Cresson). N. Mex., Calif.; Lower Calif. Change **us** to **or** in sp. heading.

nigrescens (Cresson). Mexico.

Biology: Cole, 1953. Tenn. Acad. Sci. Jour. 28: 84.

Taxonomy: G. C. Wheeler, 1943. Ent. Soc. Amer. Ann. 36: 331, figs. 29-33 (larva).

opacithorax (Emery). Ariz., Calif.; Mexico, Costa Rica.

Eciton (Neivamyrmex) opacithorax castaneum Borgmeier, 1948. Rev. de Ent. 19: 191-194, figs. 1-9. ♀. (Syn. by Borgmeier, 1955. Studia Entomologica 3: 502.)

Biology: Cole, 1953. Tenn. Acad. Sci. Jour. 28: 84.

oslari (W. M. Wheeler). Syn. of **andrei** (Emery).

pauxillus (W. M. Wheeler). Tex.; Mexico. Change **um** to **us** in sp. heading.

peninsulare (Mann). Syn. of **leonardi** (W. M. Wheeler).

pilosus mandibularis (M. R. Smith). Ariz. (Kits Peak in Baboquivari Mts., 4050 ft. and San Bernardino Ranch in Cochise County, 3750 ft.) Change **um** to **us** in sp. heading and **re** to **ris** in ssp. heading.

pilosus mexicanus (F. Smith), changed status. Miss. to Ark., Okla., Tex. south to Centr. Amer. A syn. of **pilosus** in Catalog.

Eciton clavicornis Norton.

Eciton subsulcatum Mayr.

**Eciton (Acamatus) aztecum* Forel, 1901. Mitt. Nat. Mus. Hamburg 18: 49. ♀. (Syn. by Borgmeier, 1936. Inst. Biol. Veg. Arg. 3: 60).

pilosus pilosus F. Smith. Delete from Catalog; exotic subspecies.

Labidus Mexicanus F. Smith. A subsp. of **pilosus** F. Smith (*teste* Borgmeier, 1953. Studia Entomologica 2: 17).

***swainsonii** (Shuckard). Ariz., Calif., N. Mex., Tex. to Argentina.

Labidus swainsonii Shuckard, 1840. Ann. Nat. Hist. 5: 201. ♂.

Eciton (Neivamyrmex) arizonense W. M. Wheeler (syn. by Borgmeier, 1955. Studia Entomologica 3: 454.)

Unrecognized Forms of *Eciton* subgenus *Neivamyrmex* Borgmeier, p. 781

Delete from Catalog and replace with Unrecognized Forms of Dorylinae. Place *Eciton californicum* var. *obscura* (Forel) as syn. of *californicum* (Mayr), p. 780, leaving *Myrmica* (*Monomarium* (!)) *coeca* Buckley under above new heading.

Subfamily CERAPACHYINAE

Taxonomy: W. M. Wheeler, 1920. *Psyche* 27: 50-51.—Donisthorpe, 1921. London Ent. Soc. Proc., pp. 45-47.—W. M. Wheeler, 1922. *Amer. Mus. Nat. Hist. Bul.* 45: 51.—Morley, 1939. *Soc. Ent. de France Bul.* 44: 114-118, figs. 1, 5.—Reid, 1941. *Roy. Ent. Soc. London, Trans.* 91: 421-422.—Creighton, 1950. *Harvard Univ., Mus. Compar. Zool. Bul.* 104: 58.—G. C. Wheeler, 1950. *Psyche* 57: 102-113, 2 figs., 1 pl. (larvae).—Kuznezov, 1952. *Dusenja* 3: 115.—W. L. Brown, 1954. *Insectes Sociaux* 1: 26.

CERAPACHYS subgenus PARASYSCIA Emery, p. 782

augustae W. M. Wheeler.

Taxonomy: G. C. Wheeler, 1950. *Psyche* 57: 106-107, fig. 1 (larva).

ACANTHOSTICHUS subgenus CTENOPYGA Ashmead, p. 782

Change type designation to read *Ctenopyga townsendi* Ashmead) = *Acanthostichus texanus* Forel. Monob.

texanus Forel. Mexico.

**Ctenopyga townsendi* Ashmead, 1906. *Ent. Soc. Wash. Proc.* 8: 29-30, fig. 4. ♀ ♂. (Syn. by M. R. Smith, 1955. *Brooklyn Ent. Soc. Bul.* 50: 49.)

townsendi (Ashmead). Syn. of *texanus* Forel.

Subfamily PONERINAE

Biology: W. M. Wheeler, 1926. *Ants, Their Structure, Development and Behavior*, pp. 225-245, illus.

Taxonomy (larvae): G. C. and J. Wheeler, 1952. *Amer. Midland Nat.* 48: 111-144, 2 figs., 5 pls.—Op. cit., 48: 604-672, 2 figs., 6 pls.

Genus STIGMATOMMA Roger, p. 782

Taxonomy: W. L. Brown, 1949. *Psyche* 56: 81-88; fig. 1.

pallipes pallipes (Haldeman). Ariz., N. Mex., Tex.

Biology: Cole, 1953. *Tenn. Acad. Sci. Jour.* 28: 84.

Taxonomy: G. C. and J. Wheeler, 1952. *Amer. Midland Nat.* 48: 114; text fig. 1, pl. 1, figs. 8-11 (larva).

pallipes subterranea Creighton. Tex.

**trigonignatha* (W. L. Brown). N. C. (Concord).

Amblyopone (*Stigmatomma*) *trigonignatha* W. L. Brown, 1949. *Psyche* 56: 81-84, fig. 1. ♀.

Genus PLATYTHYREA Roger, p. 783

punctata (F. Smith)

Taxonomy: G. C. and J. Wheeler, 1952. *Amer. Midland Nat.* 48: 119 (larva).

ECTATOMMA subgenus ECTATOMMA F. Smith, p. 783

tuberculatum (Olivier)

Taxonomy: G. C. and J. Wheeler, 1952. *Amer. Midland Nat.* 48: 129-133, pl. 4, figs. 15-26 (larva).

ECTATOMMA subgenus PARECTATOMMA Emery, p. 783

Taxonomy: G. C. and J. Wheeler, 1952. *Amer. Midland Nat.* 48: 133-134, pl. 5, figs. 13-16 (larvae).

Genus PROCERATIUM Roger, p. 784

californicum Cook. Calif. (Glenwood, Santa Cruz Mts.).

Procratium (!) **californicum** Cook, 1953. The Ants of California. Palo Alto, pps. 45-46, figs. ♂.

crassicornae Emery. Syn. of **silaceum** Roger.

crassicornae var. **vestitum** Emery. Syn. of **silaceum** Roger.

croceum (Roger)

Taxonomy: G. C. and J. Wheeler, 1952. Amer. Midland Nat. 48: 135, pl. 5, figs. 20-27 (larva).

silaceum Roger, changed status. Mass.

Proceratium silaceum silaceum Roger. Raised to sp. rank (*teste* Creighton, 1950. Harvard Univ., Mus. Compar. Zool. Bul. 104: 40).

Proceratium crassicornae Emery (syn. by Creighton, *loc. cit. supra*).

Proceratium crassicornae var. **vestitum** Emery (syn. by Creighton, *loc. cit. supra*).

Proceratium silaceum rugulosum W. M. Wheeler (syn. by Creighton, *loc. cit. supra*).

Taxonomy: G. C. and J. Wheeler, 1952. Amer. Midland Nat. 48: 137, pl. 5, figs. 17-19 (larva).

silaceum rugulosum W. M. Wheeler. Syn. of **silaceum** Roger.

silaceum silaceum Roger. Raised to sp. rank.

Genus DISCOTHYREA Roger, pp. 784-785

Taxonomy: Borgmeier, 1949. Rev. Brasil de Biol. 9: 205.

testacea Roger. Fla., Ga., N. C.

Taxonomy: M. R. Smith and Wing, 1954. N. Y. Ent. Soc. Jour. 62: 110-112, figs. 1, 2. ♀ ♀.

NEOPONERA subgenus NEOPONERA Emery, p. 785

villosa (Fabricius).

Taxonomy: G. C. and J. Wheeler, 1952. Amer. Midland Nat. 48: 615, pl. 3, figs. 11, 12, 14, 18 (larva).

PACHYCONDYLA subgenus PACHYCONDYLA F. Smith, p. 785

harpax (Fabricius), changed status. So. Amer. Delete sentence "*Harpax harpax* (Fabricius), 1804, occurs in the Neotropical Region."

Pachycondyla (*Pachycondyla*) **harpax montezumia** F. Smith. A syn. of **harpax** (*teste* W. L. Brown, 1950. Wasmann Jour. Biology 8: 247).

Taxonomy: G. C. and J. Wheeler, 1952. Amer. Midland Nat. 48: 617-618 (larva).

harpax montezumia F. Smith. Syn. of **harpax** (Fabricius).

EUPONERA subgenus BRACHYPONERA Emery, pp. 785-786

solitaria (F. Smith).

Taxonomy: G. C. and J. Wheeler, 1952. Amer. Midland Nat. 49: 629 (larva).

EUPONERA subgenus TRACHYMESOPUS Emery, p. 786

gilva (Roger).

Taxonomy: G. C. and J. Wheeler, 1952. Amer. Midland Nat. 48: 625-627, pl. 4, figs. 8-16 (larva).

stigma (Fabricius).

Taxonomy: G. C. and J. Wheeler, 1952. Amer. Midland Nat. 48: 627 (larva).

Genus PONERA Latreille, pp. 786-787

coarctata pennsylvanica Buckley. Colo., N. Dak.

Biology: Headley, 1952. Ent. Soc. Amer. Ann. 45: 436-438.

Taxonomy: G. C. and J. Wheeler, 1952. Amer. Midland Nat. 48: 631, pl. 5, figs. 18-21, 28-32 (larva).

ergatandria Forel. Ariz., Colo., N. Mex.

opaciceps Mayr. Argentina.

Taxonomy: G. C. and J. Wheeler, 1952. Amer. Midland Nat. 48: 634 (larva).

trigona opacior Forel, changed status.

Ponera trigona var. *opacior* Forel. Raised to subsp. rank (*teste* Creighton, 1950. Harvard Univ., Mus. Compar. Zool. Bul. 104: 48; pl. 8, figs. 1-4).

LEPTOGENYS subgenus LOBOPELTA Mayr, p. 787

elongata (Buckley).

Taxonomy: G. C. and J. Wheeler, 1952. Amer. Midland Nat. 48: 641, pl. 6, figs. 8-10 (larva).

Genus ODONTOMACHUS Latreille, pp. 787-788

Biology: W. M. Wheeler, 1922. Amer. Mus. Nat. Hist. Bul. 45: 99-103.

Taxonomy: G. C. and J. Wheeler, 1952. Amer. Midland Nat. 48: 646, pl. 6, figs. 22-29 (larvae).

haematoda clarus Roger.

Taxonomy: G. C. and J. Wheeler, 1952. Amer. Midland Nat. 48: 648-650 (larva).

haematoda insularis Guérin. Ala.

*Subfamily PSEUDOMYRMECINAE

(= Subfamily *Leptaleinae* of Catalog)

*Genus PSEUDOMYRMEX Lund

(= *Leptalea* Erichson, p. 788)

Pseudomyrmex Lund, (Latreille, ms.), 1831 (Nov.). Notizen aus dem Gebiete der Natur und Heilkunde 32 (7): 106.

Type: *Formica gracilis* Fabricius. Desig. by M. R. Smith, 1952. Change *a* to *us* in sp. headings.

Taxonomy: Creighton, 1955. N. Y. Ent. Soc. Jour. 63: 19-20 (workers).

—G. C. and J. Wheeler, 1956. Ent. Soc. Amer. Ann. 49: 379 (larvae).

***apache** Creighton. Ariz., Calif., Tex.; Mexico.

Pseudomyrmex apache Creighton, 1953 (1952). Psyche 59: 134-139, pl. 12, figs. 1-7. ♀ ♀ ♂.

Biology: Creighton, 1954. Psyche 61: 9-15, fig. 1.

Taxonomy: G. C. and J. Wheeler, 1956. Ent. Soc. Amer. Ann. 49: 380 (larva).

elongatus (Mayr). Tex.; Mexico.

Taxonomy: G. C. and J. Wheeler, 1956. Ent. Soc. Amer. Ann. 49: 384 (larva).

flavidulus (F. Smith)

Taxonomy: Creighton, 1950. Harvard Univ., Mus. Compar. Zool. Bul. 104: 80-82.

pallidus (F. Smith)

Taxonomy: Creighton, 1950. Harvard Univ., Mus. Compar. Zool. Bul. 104: 80-82.—G. C. and J. Wheeler, 1956. Ent. Soc. Amer. Ann. 49: 386 (larva).

Unrecognized Forms of Genus *Leptalea* Erichson, p. 788

Delete this heading from Catalog and also the first line under it and replace with a new heading, Unrecognized Forms of Subfamily Pseudomyrmecinae.

Subfamily MYRMICINAE

MYRMICA subgenus MYRMICA Latreille, pp. 789-791

Taxonomy: Weber, 1950. Ent. Soc. Amer. Ann. 43: 189-226, fig. 1.—
G. C. and J. Wheeler, 1952. Psyche 59: 112-123, figs. 1-15.
(larvae).—Yarrow, 1955. Roy. Ent. Soc. London, Proc., Ser. B,
24: 113-115 (genotype).

brevinodis brevinodis Emery. Rocky Mt. Region south to N. Mex.

Taxonomy: G. C. and J. Wheeler, 1952. Psyche 59: 116 (larva).

brevinodis brevispinosa W. M. Wheeler. Mont., Utah, S. Dak., Wyo.

Taxonomy: G. C. and J. Wheeler, 1952. Psyche 59: 117 (larva).

brevinodis discontinua Weber. N. Mex., Utah.

brevinodis kuschei W. M. Wheeler. Quebec (James Bay).

brevinodis sulcinodoides Emery. N. Mex.

laevinodis Nylander. Maine, (introduced).

Taxonomy: G. C. and J. Wheeler, 1952. Psyche 58: 119 (larva).

lobicornis fracticornis Emery.

Taxonomy: G. C. and J. Wheeler, 1952. Psyche 59: 117 (larva).—Cole,
1953. Tenn. Acad. Sci. Jour. 28: 242-243.

punctiventris pinetorum W. M. Wheeler. Mass.

sabuleti americana Weber.

Taxonomy: G. C. and J. Wheeler, 1952. Psyche 59: 116 (larva).

sabuleti hamulata Weber. Mts. of Colo., Utah and N. Mex.

scabrinodis mexicana W. M. Wheeler. ? Utah.

schencki emeryana Forel.

Taxonomy: G. C. and J. Wheeler, 1952. Psyche 59: 114, 117, figs. 1-3,
4-5, 6-15 (larva).—M. R. Smith, 1954. Brooklyn Ent. Soc. Bul.
49: 138-140. ♀ ♀.

schencki tahoënsis W. M. Wheeler. Mont., Wyo., Utah and Ariz. to B. C.
and Calif.

***striolagaster** Cole. Ariz., N. Mex., Tex.

Myrmica striolagaster Cole, 1953. Tenn. Acad. Sci. Jour. 28: 81. ♀.

Unrecognized Forms of *Myrmica* subgenus *Myrmica* Latreille, p. 791

Delete this heading from Catalog, and also the first line under it.
Transfer *Myrmica dimidiata* Say to p. 833 under Unrecognized Forms of
Myrmicinae.

Genus MANICA Jurine

(= *Myrmica* subg. *Manica* Jurine of Catalog, p. 791)

Taxonomy: G. C. and J. Wheeler, 1952. Psyche 59: 123 (larvae).

Raised to generic rank (*teste* Weber, 1947. Ent. Soc. Amer. Ann. 40:
439).

aldrichi (W. M. Wheeler). Syn. of **hunteri** (W. M. Wheeler)

hunteri (W. M. Wheeler).

Myrmica (Manica) aldrichi W. M. Wheeler (syn. by Cole, 1956. Tenn.
Acad. Sci. Jour. 31: 262).

mutica (Emery).

Biology: Cole, 1953. Tenn. Acad. Sci. Jour. 28: 243.

POGONOMYRMEX subgenus POGONOMYRMEX Mayr, pp. 791-794

Taxonomy: G. C. and J. Wheeler 1952. Psyche 59: 106-111, pl. 11, figs.
1-22 (larvae).—Cole, 1954. Tenn. Acad. Sci. Jour. 29: 117-119.

- ***anergismus** Cole. N. Mex. (15 miles east of Silver City). Host: *Pogonomyrmex barbatus rugosus* Emery.
- Pogonomyrmex (Pogonomyrmex) anergismus** Cole, 1954. Tenn. Acad. Sci. Jour. 29: 115-116. Alate ♀ ♂.
- apache** W. M. Wheeler.
- Pogonomyrmex (Pogonomyrmex) sancti-hyacinthi** W. M. Wheeler (syn. by Cole, 1954. Tenn. Acad. Sci. Jour. 29: 266-267, (first description of ♀ ♂).
- badius** (Latreille).
- Biology: Van Pelt, 1953. Tenn. Acad. Sci. Jour. 28: 164-168.
- barbatus barbatus** (F. Smith).
- Pogonomyrmex (Pogonomyrmex) barbatus** var. *molefaciens* (Buckley) syn. by McCook, 1879. The Natural History of the Agricultural Ant of Texas, p. 208.
- Taxonomy: Creighton, 1950, Harvard Univ., Mus. Compar. Zool. Bul. 104: 116-119.—G. C. and J. Wheeler, 1952. Psyche 59: 107, pl. 11, figs. 14-22 (larva).
- Economics: Cassidy, Romney, et al. 1950. U. S. Dept. Agr. Cir. 842, p. 15.
- barbatus curvispinosus** Cole. Syn. of **barbatus fuscatus** Emery.
- barbatus fuscatus** Emery.
- Pogonomyrmex (Pogonomyrmex) barbatus curvispinosus** Cole (syn. by Creighton, 1950. Harvard Univ., Mus. Compar. Zool. Bul. 104: 119).
- Pogonomyrmex (Pogonomyrmex) barbatus** var. *marfensis* W. M. Wheeler (syn. by Creighton, loc. cit. supra).
- Pogonomyrmex (Pogonomyrmex) barbatus** var. *nigrescens* W. M. Wheeler (syn. by Creighton, loc. cit. supra).
- barbatus rugosus** Emery.
- Pogonomyrmex (Pogonomyrmex) similis** Olsen (syn. by Creighton, 1950. Harvard Univ., Mus. Compar. Zool. Bul. 104: 120).
- ***barbatus spadix** Cook. N. Mex. (25 miles east of Deming).
- Pogonomyrmex barbatus spadix** Cook, 1953. The Ants of California, pp. 98-99, 3 figs., ♀, no description. Palo Alto.
- barbatus** var. *marfensis* W. M. Wheeler. Syn. of **barbatus fuscatus** Emery.
- barbatus** var. *molefaciens* (Buckley). Syn. of **barbatus barbatus** (F. Smith).
- barbatus** var. *nigrescens* W. M. Wheeler. Syn. of **barbatus fuscatus** Emery.
- californicus barnesi** M. R. Smith. A subsp. of **maricopa** W. M. Wheeler.
- californicus estebanians** Pergande, changed status.
- Pogonomyrmex (Pogonomyrmex) californicus** var. *estebanians* Pergande. Raised to subsp. rank (*teste* Creighton, 1950. Harvard Univ., Mus. Compar. Zool. Bul. 104: 127).
- californicus longinodis** Emery. Raised to sp. rank.
- californicus maricopa** W. M. Wheeler. A subsp. of **maricopa** W. M. Wheeler.
- ***californicus nitratus** Cook. Ariz. (Douglas).
- Pogonomyrmex californicus nitratus** Cook, 1953. The Ants of California, pp. 99-100, 3 figs. ♀. Palo Alto.
- ***californicus sinaloanus** Olsen. Syn. of **maricopa maricopa** W. M. Wheeler.
- californicus** var. *estebanians* Pergande. A subsp. of **californicus** (Buckley).
- californicus** var. *hindleyi* Forel. Raised to sp. rank.
- comanche** W. M. Wheeler. A subsp. of **occidentalis** (Cresson).
- desertorum desertorum** W. M. Wheeler, changed status.
- Pogonomyrmex (Pogonomyrmex) desertorum** W. M. Wheeler. Reduced to subsp. rank (*teste* Creighton, 1950. Harvard Univ., Mus. Compar. Zool. Bul. 104: 124).

desertorum ferrugineus Olsen, changed status.

Pogonomyrmex (Pogonomyrmex) desertorum var. *ferrugineus* Olsen.
Raised to subsp. rank (*teste* Creighton, 1950. Harvard Univ.,
Mus. Compar. Zool. Bul. 104: 124).

desertorum tenuispina Forel, changed status.

Pogonomyrmex (Pogonomyrmex) desertorum var. *tenuispina* Forel.
Raised to subsp. rank (*teste* Creighton, 1950. Harvard Univ.,
Mus. Compar. Zool. Bul. 104: 124).

desertorum var. *ferrugineus* Olsen. A subsp. of *desertorum* W. M. Wheeler.

desertorum var. *tenuispina* Forel. A subsp. of *desertorum* W. M. Wheeler.

hindleyi Forel, changed status.

Pogonomyrmex (Pogonomyrmex) californicus var. *hindleyi* Forel. Raised
to sp. rank (*teste* Creighton, 1950. Harvard Univ., Mus. Compar.
Zool. Bul. 104: 125).

huachucanus W. M. Wheeler. N. Mex.

Biology: Cole, 1954. Tenn. Acad. Sci. Jour. 29: 119.

Taxonomy: Creighton, 1952. Psyche 59: 76-81, pl. 8, 6 figs. ♀ ♀ ♂.

longinodis Emery, changed status.

Pogonomyrmex (Pogonomyrmex) californicus longinodis Emery. Raised
to sp. rank (*teste* Creighton, 1950. Harvard Univ., Mus. Compar.
Zool. Bul. 104: 126).

maricopa barnesi M. R. Smith, changed status.

Pogonomyrmex (Pogonomyrmex) californicus barnesi M. R. Smith. A
subsp. of *maricopa*, not of *californicus* (*teste* Creighton, 1950.
Harvard Univ., Mus. Compar. Zool. Bul. 104: 127).

maricopa maricopa W. M. Wheeler, changed status.

Pogonomyrmex (Pogonomyrmex) californicus maricopa W. M. Wheeler.
A subsp. of *maricopa*, not of *californicus* (*teste* Creighton, 1950.
Harvard Univ., Mus. Compar. Zool. Bul. 104: 126).

**Pogonomyrmex californicus sinaloanus* Olsen, 1934. Harvard Univ.,
Mus. Compar. Zool. Bul. 77: 504, ♀ (syn. by Cole 1954. Tenn.
Acad. Sci. Jour. 29: 120).

occidentalis comanche W. M. Wheeler, changed status.

Pogonomyrmex (Pogonomyrmex) comanche W. M. Wheeler. A subsp. of
occidentalis (Cresson) (*teste* Creighton 1950. Harvard Univ.,
Mus. Compar. Zool. Bul. 104: 128).

Pogonomyrmex (Pogonomyrmex) occidentalis var. *utahensis* Olsen (syn.
by Creighton, *loc. cit. supra*).

occidentalis occidentalis (Cresson).

Pogonomyrmex (Pogonomyrmex) salinus Olsen (syn. by M. R. Smith,
1953. Brooklyn Ent. Soc. Bul. 48: 131).

Taxonomy: G. C. and J. Wheeler, 1952. Psyche 59: 110, pl. 11, figs. 1-13
(larva).

occidentalis owyhee Cole. Raised to sp. rank.

occidentalis var. *utahensis* Olsen. Syn. of *occidentalis comanche* W. M.
Wheeler.

owyhee Cole, changed status.

Pogonomyrmex (Pogonomyrmex) occidentalis owyhee Cole. Raised to
sp. rank (*teste* Creighton, 1950. Harvard Univ., Mus. Compar.
Zool. Bul. 104: 130).

salinus Olsen. Syn. of *occidentalis occidentalis* (Cresson).

sancti-hyacinthi W. M. Wheeler. Syn. of *apache* W. M. Wheeler.

similis Olsen. Syn. of *barbatus rugosus* Emery.

POGONOMYRMEX subgenus EPHEBOMYRMEX W. M. Wheeler, p. 794

Biology: Creighton, 1956. Psyche 63: 61-63.

Taxonomy: G. C. and J. Wheeler, 1952. Psyche 59: 111-112 (larvae).

imberbiculus W. M. Wheeler. Ariz., Calif.; Mexico.

Pogonomymex (Epebomyrmex) townsendi W. M. Wheeler. (Syn. by Creighton, 1956. Psyche 63: 54.)

Taxonomy: G. C. and J. Wheeler, 1952. Psyche 59: 111 (larva.)—Creighton, 1956. Psyche 63: 63, fig. 1. ♀.

pima W. M. Wheeler. Mexico.

Genus STENAMMA Westwood, pp. 794-795

Taxonomy: G. C. and J. Wheeler, 1953. Ent. Soc. Wash. Proc. 55: 50-52, pl. 1, figs. 1-13 (larvae). M. R. Smith, 1957. Amer. Midland Nat. 57: 133-174, 4 pls., (rev.).

brevicorne (Mayr), changed status. N. S., Que., Ont. to Va. and west to Minn., Nebr.

Stenamma brevicorne brevicorne (Mayr). Raised to sp. rank (*teste* M. R. Smith, 1957. Amer. Midland Nat. 57: 163).

Stenamma nearcticum Mayr. (syn. by M. R. Smith, *loc. cit. supra*). ♂. (♀ ♂ misdet.).

brevicorne brevicorne (Mayr). Raised to sp. rank.

brevicorne diecki Emery. Raised to sp. rank.

brevicorne heathi W. M. Wheeler. Raised to sp. rank.

brevicorne impar Forel. Raised to sp. rank.

brevicorne impressum Emery. Syn. of *diecki* Emery.

brevicorne schmittii W. M. Wheeler. Raised to sp. rank.

brevicorne sequoiarum W. M. Wheeler. Raised to sp. rank.

***carolinense** M. R. Smith. N. C. (Hoffman).

Stenamma carolinense M. R. Smith, 1951. Ent. Soc. Wash. Proc. 53: 156-158, figs. 1, 2. ♀.

diecki Emery, changed status. Canada and most of U. S. except extreme Central States and a few of the Southern States.

Stenamma brevicorne diecki Emery. Raised to sp. rank (*teste* M. R. Smith, 1957. Amer. Midland Nat. 57: 158).

Stenamma brevicorne impressum Emery (syn. by M. R. Smith, *loc. cit. supra*).

Biology: Cole, 1950. Tenn. Acad. Sci. Jour. 25: 297.

Taxonomy: G. C. and J. Wheeler, 1953. Ent. Soc. Wash. Proc. 55: 50, pl. 1, figs. 1-13 (larva).

heathi W. M. Wheeler, changed status. Calif., Nev.

Stenamma brevicorne heathi W. M. Wheeler. Raised to sp. rank (*teste* M. R. Smith, 1957. Amer. Midland Nat. 57: 154).

***huachucanum** M. R. Smith. Ariz.

Stenamma huachucanum M. R. Smith, 1957. Amer. Midland Nat. 57: 153. ♀.

impar Forel, changed status. Mass. to Ga. west to N. Dak. and Mo.

Stenamma brevicorne impar Forel. Raised to sp. rank (*teste* M. R. Smith, 1957. Amer. Midland Nat. 57: 150).

***meridionale** M. R. Smith. Va., Mo., Ill., south to S. C. and Ark.

Stenamma meridionale M. R. Smith, 1957. Amer. Midland Nat. 57: 169. ♀, ♀.

nearcticum Mayr. Syn. of *brevicorne* (Mayr).

***occidentale** M. R. Smith. B. C. to Baja Calif., east to Idaho, Colo., N. Mex.

Stenamma occidentale M. R. Smith, 1957. Amer. Midland Nat. 57: 146. ♀, ♀, ♂.

schmittii W. M. Wheeler, changed status. Maine to N. C. west to Minn. and Mo.

Stenamma brevicorne schmittii W. M. Wheeler. Raised to sp. rank (*teste* M. R. Smith, 1957. Amer. Midland Nat. 57: 142).

sequoiarum W. M. Wheeler, changed status.

Stenammas brevicorne sequoiarum W. M. Wheeler. Raised to sp. rank (teste M. R. Smith, 1957. Amer. Midland Nat. 57: 156).

APHAENOGASTER subgenus ATTOMYRMA Emery, pp. 795-798

Taxonomy: G. C. and J. Wheeler, 1953. Ent. Soc. Wash. Proc. 55: 54-62, pl. 2, figs. 1-20 (larvae).

ashmeadi Emery, changed status. Ala.

Aphaenogaster (Attomyrma) treatae ashmeadi Emery. Raised to sp. rank (teste Creighton, 1950. Harvard Univ., Mus., Compar. Zool. Bul. 104: 142).

Aphaenogaster (Attomyrma) treatae harnedi W. M. Wheeler (syn. by Creighton, loc. cit. supra).

boulderensis boulderensis M. R. Smith. Tex.

flemingi M. R. Smith, changed status.

Aphaenogaster (Attomyrma) texana flemingi M. R. Smith. Raised to sp. rank (teste Creighton, 1950. Harvard Univ., Mus. Compar. Zool. Bul. 104: 143).

floridana M. R. Smith. Ala.

fulva Roger, changed status.

Aphaenogaster (Attomyrma) fulva fulva Roger. Raised to sp. rank (teste Creighton, 1950. Harvard Univ., Mus. Compar. Zool. Bul. 104: 143).

fulva aquia (Buckley). Transf. to Unrecognized Forms of Myrmicinae, p. 833, as *Myrmica (Monomarium (!)) aquia* Buckley.

fulva aquia var. *picea* (Emery). A subsp. of *rudis* (Emery).

fulva fulva Roger. Raised to sp. rank. Colo., Fla.

fulva rudis Emery. A subsp. of *rudis* Emery.

**huachucana crinimera* Cole. N. Mex. (Bandelier Natl. Mon.).

Aphaenogaster (Allomyrma (!)) huachucana crinimera Cole, 1953. Tenn. Acad. Sci. Jour. 28: 82, fig. 1, a-d. ♀ ♀ ♂.

huachucana huachucana Creighton, changed status.

Aphaenogaster (Attomyrma) huachucana Creighton. Reduced to subsp. rank (teste Cole, 1953. Tenn. Acad. Sci. Jour. 28: 82).

Biology and Taxonomy: Creighton, 1951. Psyche 58: 89-99, pl. 7, figs. 1-6. ♀ ♀ ♂.

lamellidens Mayr.

Aphaenogaster (Attomyrma) lamellidens var. *nigripes* M. R. Smith. (syn. by Creighton, 1950. Harvard Univ., Mus. Compar. Zool. Bul. 104: 144).

macrospina M. R. Smith, changed status.

Aphaenogaster (Attomyrma) texana macrospina M. R. Smith. Raised to sp. rank (teste Creighton, 1950. Harvard Univ., Mus. Compar. Zool. Bul. 104: 145).

miamiana W. M. Wheeler, changed status.

Aphaenogaster (Attomyrma) texana var. *miamiana* W. M. Wheeler. Raised to sp. rank (teste Creighton, 1950. Harvard Univ., Mus. Compar. Zool. Bul. 104: 145).

patruelis bakeri (W. M. Wheeler). Delete statement concerning *A. patruelis patruelis*.

**patruelis patruelis* Forel. Guadeloupe Is., Lower Calif.; Coastal Islands of Calif.

Aphaenogaster patruelis Forel, 1886. Soc. Ent. de Belg. Ann. 30: 41.

Aphaenogaster (Attomyrma) patruelis willowsi W. M. Wheeler (syn. by Creighton, 1950. Harvard Univ., Mus. Compar. Zool. Bul. 104: 146).

patruelis willowsi W. M. Wheeler. Syn. of *patruelis patruelis* Forel.

rudis rudis Emery, changed status. Ala., Fla., Colo.

Aphaenogaster (Attomyrma) fulva rudis Emery. A subsp. of *rudis*, not of *fulva* (*teste* Creighton, 1950. Harvard Univ., Mus. Compar. Zool. Bul. 104: 147-148).

Biology: Talbot, 1951. Ent. Soc. Amer. Ann. 44: 302-307.

Taxonomy: G. C. and J. Wheeler, 1953. Ent. Soc. Wash. Proc. 55: 56, pl. 2, figs. 1-20 (larva).

rudis picea Emery, changed status.

Aphaenogaster (Attomyrma) fulva aquia var. *picea* (Emery). A subsp. of *rudis* not a var. of *fulva aquia* (*teste* Creighton, 1950. Harvard Univ., Mus. Compar. Zool. Bul. 104: 148).

Taxonomy: G. C. and J. Wheeler, 1953. Ent. Soc. Wash. Proc. 55: 57-60 (larva).

subterranea borealis W. M. Wheeler. Syn. of *subterranea occidentalis* (Emery).

subterranea occidentalis (Emery).

Aphaenogaster (Attomyrma) subterranea borealis W. M. Wheeler (syn. by Creighton, 1950. Harvard Univ., Mus. Compar. Zool. Bul. 104: 150).

Aphaenogaster (Attomyrma) subterranea valida var. *manni* W. M. Wheeler (syn. by Creighton, *loc. cit. supra*).

Taxonomy: G. C. and J. Wheeler, 1953. Ent. Soc. Wash. Proc. 55: 61 (larva).

subterranea valida W. M. Wheeler. Rocky Mt. Region from Colo. to B. C. and west to mts. of Utah.

subterranea valida var. *manni* W. M. Wheeler. Syn. of *subterranea occidentalis* Emery,

tennesseensis (Mayr). Ala., Fla., S. Dak.

Aphaenogaster (Attomyrma) tennesseensis var. *ecalcarata* (Emery) (syn. by Creighton, 1950. Harvard Univ., Mus. Compar. Zool. Bul. 104: 151).

Taxonomy: G. C. and J. Wheeler, 1953. Ent. Soc. Wash. Proc. 55: 61-62 (larva).

texana carolinensis W. M. Wheeler, changed status.

Aphaenogaster (Attomyrma) texana var. *carolinensis* W. M. Wheeler. Raised to subsp. rank (*teste* Creighton, 1950. Harvard Univ., Mus. Compar. Zool. Bul. 104: 153).

texana flemingi M. R. Smith. Raised to sp. rank.

texana macropsina M. R. Smith. Raised to sp. rank.

texana texana (Emery). Tenn.

Aphaenogaster (Attomyrma) texana var. *furvenscens* W. M. Wheeler (syn. by Creighton, 1950. Harvard Univ., Mus. Compar. Zool. Bul. 104: 152).

Aphaenogaster (Attomyrma) texana var. *silvestrii* Menozzi (syn. by Creighton, *loc. cit. supra*).

Taxonomy: G. C. and J. Wheeler, 1953. Ent. Soc. Wash. Proc. 55: 62 (larva).

texana var. *carolinensis* W. M. Wheeler. A subsp. of *texana* (Emery).

texana var. *furvenscens* W. M. Wheeler. Syn. of *texana texana* (Emery).

texana var. *miamiana* W. M. Wheeler. Raised to sp. rank.

texana var. *silvestrii* Menozzi. Syn. of *texana texana* (Emery).

treatae ashmeadi Emery. Raised to sp. rank.

treatae harnedi W. M. Wheeler. Syn. of *ashmeadi* Emery.

treatae pluteicornis G. C. and E. W. Wheeler.

Aphaenogaster (Attomyrma) treatae pluteicornis var. *oklahomensis* G. C. and E. W. Wheeler (syn. by Creighton, 1950. Harvard Univ., Mus. Compar. Zool. Bul. 104: 154).

Taxonomy: G. C. and J. Wheeler, 1953. Ent. Soc. Wash. Proc. 55: 62 (larva).

treatae pluteicornis var. *alabamensis* G. C. and E. W. Wheeler. Syn. of *treatae treatae* Forel.

treatae pluteicornis var. *oklahomensis* G. C. and E. W. Wheeler. Syn. of *treatae pluteicornis* G. C. and E. W. Wheeler.

treatae treatae Forel. Fla.

Aphaenogaster (Attomyrma) treatae pluteicornis var. *alabamensis* G. C. and E. W. Wheeler (syn. by Creighton, 1950. Harvard Univ., Mus. Compar. Zool. Bul. 104: 153).

Aphaenogaster (Attomyrma) treatae wheeleri Mann (syn. by Creighton, loc. cit. supra).

Biology: Talbot, 1954. Mich. Univ., Contrib. Lab. Vertebr. Biol. 69: 1-9.

treatae wheeleri Mann. Syn. of *treatae treatae* Forel.

uinta W. M. Wheeler. Nev.

Unrecognized Forms of *Aphaenogaster* subgenus *Attomyrma* Emery, p. 798

Delete this heading from Catalog, and also the first line under it. Transfer *Myrmica opposita* Say to Unrecognized Forms of *Myrmicinae*, p. 833.

Genus **NOVOMESSOR** Emery, pp. 798-799

Taxonomy: G. C. and J. Wheeler, 1953. Ent. Soc. Wash. Proc. 55: 79, pl. 1, figs. 26-31 (larvae).

albisetosus (Mayr). Mexico.

Biology: Creighton, 1955. Psyche 62: 89-97.

Taxonomy: G. C. and J. Wheeler, 1953. Ent. Soc. Wash. Proc. 55: 70, pl. 2, figs. 26-31 (larva).

cockerelli (André). Nev., Tex.

Biology: Cole, 1953. Tenn. Acad. Sci. Jour. 28: 243.—Creighton, 1955. Psyche 62: 89-97.

Genus **VEROMESSOR** Forel, p. 799

Biology: Creighton, 1953. Amer. Mus. Novitates 1612: 1-18.

Taxonomy: M. R. Smith, 1956. Pan-Pacific Ent. 32: 36-37 (key to workers of U. S. spp.).

andrei (Mayr), changed status. Oreg.; Lower Calif.

Veromessor andrei andrei (Mayr). Raised to sp. rank (*teste* Creighton, 1950. Harvard Univ., Mus. Compar. Zool. Bul. 104: 158).

Veromessor andrei flavus W. M. Wheeler and Creighton (syn. by Creighton op. cit., p. 159 under *andrei castaneus*).

Veromessor andrei castaneus W. M. Wheeler and Creighton (syn. by Creighton, 1953. Amer. Mus. Novitates 1612: 3).

Biology: Creighton, 1953. Amer. Mus. Novitates 1612: 2-4.

andrei andrei (Mayr). Raised to sp. rank.

andrei castaneus W. M. Wheeler and Creighton. Syn. of **andrei** (Mayr).

andrei flavus W. M. Wheeler and Creighton. Syn. of **andrei** (Mayr).

chamberlini (W. M. Wheeler). Calif. and coastal islands of Calif.

***lariversi** M. R. Smith. Calif., Nev.

Veromessor lariversi M. R. Smith, 1951. Great Basin Nat. 11: 94-96. ♂.

Biology: Creighton, 1953. Amer. Mus. Novitates 1612: 5-6.

Taxonomy: Cole, 1955. Tenn. Acad. Sci. Jour. 30: 51-52. ♀.

lobognathus (Andrews). ? Mo., Nev.

Biology: Gregg, 1955. Psyche 62: 45-51.

pergandei (Mayr). Nev.; Lower Calif.

Biology: Creighton, 1953. Amer. Mus. Novitates 1612: 7-17.

***stoddardi chicoensis** M. R. Smith. Calif. (Chico).

Veromessor stoddardi chicoensis M. R. Smith, 1956. Pan-Pacific Ent. 32: 36-38. ♀.

stoddardi stoddardi (Emery), changed status.

Veromessor stoddardi (Emery). Reduced to subsp. rank (*teste* M. R. Smith, 1956. Pan-Pacific Ent. 32: 37).

Biology: Creighton, 1953. Amer. Mus. Novitates 1612: 17-18.

PHEIDOLE subgenus PHEIDOLE Westwood, pp. 799-806

Taxonomy: G. C. and J. Wheeler, 1953. Ent. Soc. Wash. Proc. 55: 70-80, pl. 3, figs. 1-14 (larvae).—Creighton and Gregg, 1955. Univ. Colo. Studies, Biol. Ser. 3: 1-46, 10 figs.

bahai (Forel). N. C. (Faisons). Transf. from Unrecognized Forms of Myrmicinae, p. 833.

barbata W. M. Wheeler. Ariz.

Taxonomy: Creighton and Gregg, 1955. Univ. Colo. Studies, Series in Biol. 3: 1-3, fig. 1. ♀ 2f.

bicarinata bicarinata Mayr. Ariz., Colo., Nev., ? N. Mex., Utah.

Pheidole hayesi M. R. Smith (syn. by Creighton, 1950. Harvard Univ., Mus. Compar. Zool. Bul. 104: 170).

bicarinata buccalis W. M. Wheeler, changed status. South. Utah each to Tex.

Pheidole (Pheidole) vinelandica buccalis W. M. Wheeler. A subsp. of *bicarinata*, not of *vinelandica* (*teste* Creighton, 1950. Harvard Univ., Mus. Compar. Zool. Bul. 104: 171).

Pheidole (Pheidole) vinelandica longula var. *castanea* W. M. Wheeler (syn. by Creighton, *loc. cit. supra*).

Pheidole (Pheidole) vinelandica longula var. *huachucana* M. R. Smith (a substitute name for *castanea* W. M. Wheeler).

Biology: Cole, 1953. Tenn. Acad. Sci. Jour. 28: 297.

bicarinata longula Emery, changed status. N. Mex.

Pheidole (Pheidole) vinelandica longula Emery. A subsp. of *bicarinata* not of *vinelandica* (*teste* Creighton, 1950. Harvard Univ., Mus. Compar. Zool. Bul. 104: 171).

bicarinata vinelandica Forel, changed status. Fla.

Pheidole (Pheidole) vinelandica vinelandica Forel. A subsp. of *bicarinata* (*teste* Creighton, 1950. Harvard Univ., Mus. Compar. Zool. Bul. 104: 172).

Pheidole (Pheidole) vinelandica laeviuscula Emery (syn. by Creighton, *loc. cit. supra*).

californica californica Mayr.

Pheidole (Pheidole) californica var. *satura* W. M. Wheeler (syn. by Creighton, 1950. Harvard Univ. Mus., Compar. Zool. Bul. 104: 173).

Pheidole (Pheidole) californica var. *incenata* W. M. Wheeler (syn. by Creighton, *loc. cit. supra*).

californica oregonica Emery.

Pheidole (Pheidole) californica var. *hagermani* Cole (syn. by Creighton, 1950. Harvard Univ., Mus. Compar. Zool. Bul. 104: 173).

californica shoshoni Cole, changed status.

Pheidole (Pheidole) californica var. *shoshoni* Cole. Raised to subsp. rank (*teste* Creighton, 1950. Harvard Univ., Mus. Compar. Zool. Bul. 104: 174).

californica var. *hagermani* Cole. Syn. of *californica oregonica* Emery.

californica var. *incenata* W. M. Wheeler. Syn. of *californica californica* Mayr.

californica var. *satura* W. M. Wheeler. Syn. of *californica californica* Mayr.

californica var. *shoshoni* Cole. A subsp. of *californica* Mayr.

**carbonaria* Pergande. Syn. of *tepicana* Pergande.

cerebrosior W. M. Wheeler, changed status. Ariz., Calif., N. Mex.; Mexico, Lower Calif.

Pheidole (*Pheidole*) *vinelandica cerebrosior* W. M. Wheeler. Raised to sp. rank (*teste* Creighton, 1950. Harvard Univ., Mus. Compar. Zool. Bul. 104: 175).

Taxonomy: Creighton and Gregg, 1955. Univ. of Colo. Studies, Series 3: 3-5, fig. 2. 24.

ceres W. M. Wheeler.

Biology: Cole, 1953. Tenn. Acad. Sci. Jour. 28: 297.

cockerelli W. M. Wheeler. Tex.

crassicornis crassicornis Emery.

Pheidole (*Pheidole*) *crassicornis* var. *diversipilosa* W. M. Wheeler (syn. by Creighton, 1950. Harvard Univ., Mus. Compar. Zool. Bul. 104: 175).

crassicornis porcula W. M. Wheeler. Raised to sp. rank.

crassicornis porcula var. *tetra* W. M. Wheeler. A subsp. of *crassicornis* Emery.

crassicornis tetra W. M. Wheeler, changed status. Tex. to Ariz.

Pheidole (*Pheidole*) *crassicornis porcula* var. *tetra* W. M. Wheeler. Raised to subsp. rank (*teste* Creighton, 1950. Harvard Univ., Mus. Compar. Zool. Bul. 104: 176).

crassicornis vallicola W. M. Wheeler. Raised to sp. rank.

crassicornis var. *diversipilosa* W. M. Wheeler. Syn. of *crassicornis crassicornis* Emery.

**creightoni* Gregg. (In subarmata group.) Oreg. (3 miles east of Apple-gate), Nev.

Pheidole creightoni Gregg, 1955. Psyche 62: 19-28, pl. 2, figs. a-c, pl. 3, figs. a-c. ♂ ♀ ♂.

dentata Mayr.

Pheidole (*Pheidole*) *dentata* var. *faisonsica* Forel (syn. by Creighton, 1950. Harvard Univ., Mus. Compar. Zool. Bul. 104: 178).

Pheidole (*Pheidole*) *dentata* var. *commutata* Mayr (syn. by Creighton, loc. cit. *supra*).

Taxonomy: G. C. and J. Wheeler, 1953. Ent. Soc. Wash. Proc. 55: 71, pl. 3, figs. 1-14 (larva).

dentata var. *commutata* Mayr. Syn. of *dentata* Mayr.

dentata var. *faisonsica* Forel. Syn. of *dentata* Mayr.

dentigula M. R. Smith. Tenn.

desertorum W. M. Wheeler.

Pheidole (*Pheidole*) *desertorum* var. *comanche* W. M. Wheeler (syn. by Creighton, 1950. Harvard Univ., Mus. Compar. Zool. Bul. 104: 178).

Pheidole (*Pheidole*) *desertorum* var. *maricopa* W. M. Wheeler (syn. by Creighton, op. cit., p. 179).

desertorum var. *comanche* W. M. Wheeler. Syn. of *desertorum* W. M. Wheeler.

desertorum var. *maricopa* W. M. Wheeler. Syn. of *desertorum* W. M. Wheeler.

floridana lauta W. M. Wheeler, changed status. Texas to Ala.

Pheidole (*Pheidole*) *laut* W. M. Wheeler. Reduced to subsp. rank (*teste* Creighton, 1950. Harvard Univ., Mus. Compar. Zool. Bul. 104: 178).

gilvescens W. M. Wheeler, changed status. Ariz., Calif.

Pheidole (Pheidole) xerophila tucsonica var. *gilvescens* W. M. Wheeler. Raised to sp. rank (*teste* Creighton and Gregg, 1955. Univ. Colo. Studies, Series in Biol. 3: 5-7, 40, fig. 8, c-d. ♂ 2f).

hayesi M. R. Smith. Syn. of *bicarinata* Mayr.

hyatti hyatti Emery. Colo.

Pheidole (Pheidole) hyatti var. *ecitonodora* W. M. Wheeler (syn. by Creighton, 1950. Harvard Univ., Mus. Compar. Zool. Bul. 104: 180).

Taxonomy: G. C. and J. Wheeler, 1953. Ent. Soc. Wash. Proc. 55: 74 (larva).

hyatti var. *ecitonodora* W. M. Wheeler. Syn. of *hyatti hyatti* Emery.

**kingi* E. André. Syn. of *tepicana* Pergande.

kingi instabilis Emery. Syn. of *tepicana* Pergande.

kingi torpescens W. M. Wheeler. Syn. of *tepicana* Pergande.

lamia W. M. Wheeler. Ga.

lauta W. M. Wheeler. A subsp. of *floridana* Emery.

macclendoni W. M. Wheeler. Tex. to Ariz.

megacephala (Fabricius).

Taxonomy: G. C. and J. Wheeler, 1953. Ent. Soc. Wash. Proc. 55: 75 (larva).

metallescens metallescens Emery. Fla. to Tex.

metallescens spendidula W. M. Wheeler. Delete all records for this subspecies except Tex.

militicida W. M. Wheeler. Ariz., N. Mex.

Biology: Cole, 1953. Tenn. Acad. Sci. Jour. 28: 298.

Taxonomy: Creighton and Gregg, 1955. Univ. Colo. Studies, Series in Biol. 3: 9-12, fig. 3, a-b. ♀ ♂.

morrisii morrisii Forel

Pheidole (Pheidole) morrisii Forel. Reduced to subsp. rank (*teste* Creighton, 1950. Harvard Univ., Mus. Compar. Zool. Bul. 104: 183).

Pheidole (Pheidole) morrisii var. *vanceae* Forel (syn. by Creighton, 1950, *loc. cit. supra*).

morrisii impexa W. M. Wheeler, changed status. Okla., Tex.

Pheidole (Pheidole) morrisii var. *impexa* W. M. Wheeler. Raised to subsp. rank (*teste* Creighton, 1950. Harvard Univ., Mus. Compar. Zool. Bul. 104: 184).

morrisii var. *impexa* W. M. Wheeler. A subsp. of *morrisii* Forel.

morrisii var. *vanceae* Forel. Syn. of *morrisii morrisii* Forel.

**pilifera anfracta* Cole. Syn. of *senex* Gregg.

pilifera artemisia Cole. Ariz.

Taxonomy: Cole, 1952. Tenn. Acad. Sci. Jour. 27: 280. 2f.—Gregg, 1955. Psyche 62: 22-23. ♂ 2f.

pilifera coloradensis Emery. Colo. and N. Mex. to the Dakotas.

Pheidole (Pheidole) pilifera coloradensis var. *neomexicana* W. M. Wheeler (syn. by Creighton, 1950. Harvard Univ., Mus. Compar. Zool. Bul. 104: 187).

Taxonomy: Cole, 1952. Tenn. Acad. Sci. Jour. 27: 279. 2f.—Gregg, 1955. Psyche 62: 22-23. ♂ 2f.

pilifera coloradensis var. *neomexicana* W. M. Wheeler. Syn. of *pilifera coloradensis* Emery.

pilifera pacifica W. M. Wheeler, changed status. Nev.

Pheidole (Pheidole) xerophila pacifica W. M. Wheeler. A subsp. of *pilifera* not of *xerophila* (*teste* Creighton, 1950. Harvard Univ., Mus. Compar. Zool. Bul. 104: 187).

Taxonomy: Cole, 1952. Tenn. Acad. Sci. Jour. 27: 279. ♀.—Gregg, 1955. Psyche 62: 22-23. ♀ 2♀.

pilifera pilifera (Roger). Fla.

Pheidole (Pheidole) pilifera var. *simulans* W. M. Wheeler (syn. by Creighton, 1950. Harvard Univ., Mus. Compar. Zool. Bul. 104: 106).

Pheidole (Pheidole) pilifera septentrionalis W. M. Wheeler (syn. by Creighton, *loc. cit. supra*).

Taxonomy: Cole, 1952. Tenn. Acad. Sci. Jour. 27: 280, 2♀.—G. C. and J. Wheeler, 1953. Ent. Soc. Wash. Proc. 55: 79 (larva).—Gregg, 1955. Psyche 62: 22-23. ♀ 2♀.

pilifera septentrionalis W. M. Wheeler. Syn. of *pilifera pilifera* (Roger).

pilifera var. *simulans* W. M. Wheeler. Syn. of *pilifera pilifera* (Roger).

pinealis W. M. Wheeler. Tex.; Mexico.

Taxonomy: Creighton and Gregg, 1955. Univ. Colo. Studies, Series in Biol. 3: 12-14. ♀ 2♀.

porcula W. M. Wheeler, changed status. Tex. to Colo.

Pheidole (Pheidole) crassicornis porcula W. M. Wheeler. Raised to sp. rank (*teste* Creighton, 1950. Harvard Univ., Mus. Compar. Zool. Bul. 104: 187).

proserpina W. M. Wheeler. Syn. of *sciophila* W. M. Wheeler.

**psammophila* Creighton and Gregg. Ariz., Calif., Mexico.

Pheidole psammophila Creighton and Gregg, 1955. Univ. Colo. Studies, Series in Biol. 3: 15-19, fig. 4, fig. 5, a-b. ♀ 2♀.

**rugifrons* Pergande. Syn. of *tepicana* Pergande.

**sciara* Cole. (In fallax group). N. Mex. (Lordsburg), Tex.

Pheidole sciara Cole, 1955. Tenn. Acad. Sci. Jour. 30: 47-49. ♀ 2♀.

sciophila W. M. Wheeler. Ariz., Tex.; Mexico.

Pheidole (Pheidole) proserpina W. M. Wheeler (syn. by Creighton and Gregg, 1955. Univ. Colo. Studies, Series in Biol. 3: 19).

Pheidole (Pheidole) sciophila var. *semilaevicephala* M. R. Smith (syn. by Creighton and Gregg, *loc. cit. supra*).

sciophila var. *semilaevicephala* M. R. Smith. Syn. of *sciophila* W. M. Wheeler.

**senex* Gregg. (In subarmata group) Colo., N. Mex., Tex.

Pheidole senex Gregg, 1952. Amer. Mus. Novitates 1557: 1-4. ♀ 2♀.

**Pheidole pilifera anfracta* Cole, 1952. Tenn. Acad. Sci. Jour. 27: 278. ♀, 2♀. (Syn. by Cole, 1953, *op. cit.* 28: 298).

Taxonomy: Gregg, 1955. Psyche 62: 22-23. ♀ 2♀.

**sitarches littoralis* Cole. (In subarmata group) Fla. (Lido Beach, Sarasota).

Pheidole sitarches littoralis Cole, 1952. Ent. Soc. Amer. Ann. 45: 443-444. ♀ 2♀.

sitarches rufescens W. M. Wheeler. Syn. of *sortis* W. M. Wheeler.

sitarches rufescens var. *campestris* W. M. Wheeler. Syn. of *sortis* W. M. Wheeler.

sitarches sitarches W. M. Wheeler. Ariz., N. Mex., Utah.

Pheidole (Pheidole) sitarches var. *transvarians* W. M. Wheeler (syn. by Creighton, 1950. Harvard Univ., Mus. Compar. Zool. Bul. 104: 189). Generic name misspelled *Pheidloe* in orig. cit. in Catalog.

Taxonomy: Cole, 1952. Ent. Soc. Amer. Ann. 45: 444. ♀.

sitarches var. *transvarians* W. M. Wheeler. Syn. of *sitarches sitarches* W. M. Wheeler.

spadonia W. M. Wheeler. Ariz.; Mexico.

Taxonomy: Creighton and Gregg, 1955. Univ. Colo. Studies, Series in Biol. 3: 22-24, fig. 6. ♀.

soritis W. M. Wheeler.

Pheidole (Pheidole) sitarches rufescens var. *campestris* W. M. Wheeler (syn. by Cole, 1953, Tenn. Acad. Sci. Jour. 28: 298).

Pheidole (Pheidole) sitarches rufescens W. M. Wheeler (syn. under *campestris* by Creighton, 1950. Harvard Univ., Mus. Compar. Zool. Bul. 104: 189). Generic name misspelled *Pheidloe* in orig. cit. in Catalog.

Taxonomy: Cole, 1952. Ent. Soc. Amer. Ann. 45: 444. ♀.

**tepicana* Pergande. Ariz., Tex.; Mexico.

**Pheidole tepicana* Pergande, 1895. Calif. Acad. Sci. Proc. 5: 878. ♀ 2f. (teste Creighton and Gregg, 1955. Univ. Colo. Studies, Series in Biol. 3:24).

**Pheidole rugifrons* Pergande 1895. Calif. Acad. Sci. Proc. 5: 880. 2f. (Syn. by Creighton and Gregg, loc. cit. supra.)

**Pheidole carbonaria* Pergande, 1895. Calif. Acad. Sci. Proc. 5: 881. ♀ 2f. (Syn. by Creighton and Gregg, loc. cit. supra).

**Pheidole kingi* E. André, 1898. Soc. Ent. de France Bul., p. 244. ♀ 2f. (Syn. by Creighton and Gregg, loc. cit. supra).

**Pheidole townsendi* E. André, 1898. Soc. Ent. de France Bul., p. 246. ♀ 2f. (Syn. by Creighton and Gregg, loc. cit. supra).

Pheidole (Pheidole) kingi instabilis Emery (syn. by Creighton and Gregg, loc. cit. supra).

Pheidole (Pheidole) kingi torpescens W. M. Wheeler (syn. by Creighton and Gregg, loc. cit. supra).

Taxonomy: G. C. and J. Wheeler, 1953. Ent. Soc. Wash. Proc. 55: 74 (larva).

titanis W. M. Wheeler. Ariz., Tex.

Taxonomy: Creighton and Gregg, 1955. Univ. Colo. Studies, Series in Biol. 3: 35-37. ♀ 2f.

**townsendi* E. André. Syn. of *tepicana* Pergande.

vallicola W. M. Wheeler, changed status.

Pheidole (Pheidole) crassicornis vallicola W. M. Wheeler. Raised to sp. rank (teste Creighton, 1950. Harvard Univ., Mus. Compar. Zool. Bul. 104: 191).

vasliti arizonica Santschi, changed status.

Pheidole (Pheidole) vasiliti subdentata var. *arizonica* Santschi. A subsp. of *vasliti*, not a var. (teste Creighton, 1950. Harvard Univ., Mus. Compar. Zool. Bul. 104: 192).

vasliti subdentata var. *arizonica* Santschi. A subsp. of *vasliti* Pergande.

vinelandica buccalis W. M. Wheeler. A subsp. of *bicarinata* Mayr.

vinelandica cerebrosior W. M. Wheeler. Raised to sp. rank.

vinelandica laeviuscula Emery. Syn. of *bicarinata vinelandica* Forel.

vinelandica longula Emery. A subsp. of *bicarinata* Mayr.

vinelandica longula var. *huachucana* M. R. Smith. Syn. of *bicarinata buccalis* W. M. Wheeler.

vinelandica vinelandica Forel. A subsp. of *bicarinata* Mayr.

virago W. M. Wheeler. Tex.

xerophila pacifica W. M. Wheeler. A subsp. of *pilifera* (Roger).

xerophila tucsonica W. M. Wheeler. Calif., N. Mex., Tex.; Mexico, Lower Calif.

Taxonomy: Creighton and Gregg, 1955. Univ. Colo. Studies, Series in Biol. 3: 40-42, fig. 9. 2f ♀.

xerophila tucsonica var. *gilvescens* W. M. Wheeler. Raised to sp. rank.

xerophila xerophila W. M. Wheeler. N. Mex.

Taxonomy: Creighton and Gregg, 1955. Univ. Colo. Studies, Series in Biol. 3: 40. 2f.

- ***yaqui** Creighton and Gregg. (In subarmata group.) Calif.; Lower Calif.
Pheidole yaqui Creighton and Gregg, 1955. Univ. Colo. Studies, Series
 in Biol. 3: 43-46, fig. 10. ♂ ♀ 2f.

Unrecognized Forms of Genus *Pheidole* Westwood, p. 806

Delete from Catalog. Tranf. *Atta pennsylvanica* Buckley and *Atta picea*
 Buckley to p. 833 under Unrecognized Forms of Myrmicinae.

PHEIDOLE subgenus CERATOPHEIDOLE Pergande, p. 806

clydei Gregg. Ariz., south. Calif., Nevada.

Taxonomy: Gregg, 1953. Amer. Mus. Novitates 1637: 1-7, figs. 1-2. 2f.

***grundmanni** M. R. Smith. Utah (Ashley Creek near Vernal).

Pheidole (Ceratopheidole) grundmanni M. R. Smith, 1953. N. Y. Ent.
 Soc. Jour. 61: 144-146, fig. 1. ♂.

Genus CARDIOCONDYLA Emery, p. 807

Taxonomy: G. C. and J. Wheeler, 1953. Wash. Acad. Sci. Jour. 43:
 188-189, figs. 1-9 (larvae).

nuda minutior Forel, changed status.

Cardiocondyla nuda var. *minutior* Forel. Raised to subsp. rank (*teste*
 Creighton, 1950. Harvard Univ., Mus. Compar. Zool. Bul. 104:
 198).

nuda var. *minutior* Forel. A subsp. of **nuda** (Mayr).

wroughtoni bimaculata W. M. Wheeler, changed status. Ga.

Cardiocondyla wroughtoni var. *bimaculata* W. M. Wheeler. Raised to
 subsp. rank (*teste* Creighton, 1950. Harvard Univ., Mus. Compar.
 Zool. Bul. 104: 199).

wroughtoni var. *bimaculata* W. M. Wheeler. A subsp. of **wroughtoni** (Forel).

CREMATOGASTER subgenus ORTHOCREMA Santschi, pp. 807-808

Taxonomy: G. C. and J. Wheeler, 1952. Wash. Acad. Sci. Jour. 42:
 258-261, fig. 5, 6-8, 9-18 (larvae).

minutissima missouriensis Emery.

Taxonomy: G. C. and J. Wheeler, 1952. Wash. Acad. Sci. Jour. 42:
 260-261, fig. 5, 6-8 (larva).

CREMATOGASTER subgenus CREMATOGASTER Lund, pp. 808-810

Taxonomy: G. C. and J. Wheeler, 1952. Wash. Acad. Sci. Jour. 42:
 249-250, 252-254, fig. 1, 14-20, fig. 2, 1-8 (larvae).

Omit last sentence in the paragraph under the subgeneric heading on
 p. 808.

ashmeadi Mayr. Southeast. U. S. from Va. to Fla. and west to Tex. Strictly
 arboreal; nests in twigs and branches.

Crematogaster (Crematogaster) ashmeadi var. *matura* W. M. Wheeler
 (syn. by Creighton, 1950. Harvard Univ., Mus. Compar. Zool.
 Bul. 104: 206).

ashmeadi var. *matura* W. M. Wheeler. Syn. of **ashmeadi** Mayr.

californica Emery. Ariz. Nests in the soil in desert or semi-desert habitats.
 Males are unusually large for this genus.

cerasi (Fitch), changed status. Common in south. Canada and Northern
 States, south to Ga. in the Appalachians, west to Ozarks and
 Black Hills and south through the eastern Rockies to N. Mex.
 Nests in logs and stumps or in the ground under objects.

Crematogaster (Crematogaster) lineolata cerasi (Fitch). Raised to sp.
 rank (*teste* W. F. Buren in unpubl. thesis).

- Crematogaster (Crematogaster) kennedyi* W. M. Wheeler (B form ♀ and typical ♂) (syn. by W. F. Buren in unpubl. thesis). Delete—Parasitic in nest of *Crematogaster lineolata* var. near *cerasi* (Fitch).
- Crematogaster (Acrocoelia) lineolata cerasi* var. *punctinodis* J. Enzmann (syn. by W. F. Buren in unpubl. thesis). Transf. from Unrecognized Forms of Subgenus *Crematogaster* Lund, p. 810.
- clara* Mayr, changed status. Common in lower Miss. Valley States, north and east to Ind., N. J., and Fla., and west to Tex. Nests in flat woods, swamps, and marshes, in rotten logs and stumps, hollow trees, branches, cane stems, etc.
- Crematogaster (Crematogaster) laeviuscula* var. *clara* Mayr. Raised to sp. (teste W. F. Buren in unpubl. thesis).
- Oecodoma (Atta) arborea* Buckley, transf. to *laeviuscula* Mayr (teste W. F. Buren in unpublished thesis).
- creightoni* W. M. Wheeler. Syn. of *pilosa* Emery.
- coarctata* Mayr. Nev., ? Oreg. Nests under rocks and boulders.
Taxonomy: Creighton, 1950. Harvard Univ., Mus. Compar. Zool. Bul. 104: 207-208.
- coarctata mormonum* Emery. Raised to sp. rank.
- **dentinodis* Forel. Ariz.; Mexico. Nests under stones in open grasslands and chaparral, or grass and mesquite, or among shrubs in succulent desert.
- Crematogaster opaca* var. *dentinodis* Forel, 1901. Soc. Ent. Belg. Ann. 45: 130. ♀.
- depilis* W. M. Wheeler, changed status. Arboreal; frequently nests in cactus, and also known to nest in mesquite. Occurs in desert or semi-desert regions.
- Crematogaster (Crematogaster) opaca depilis* W. M. Wheeler. Raised to sp. rank (teste W. F. Buren in unpubl. thesis).
Taxonomy: Creighton, 1950. Harvard Univ., Mus. Compar. Zool. Bul. 104: 204. ♀ not ♀).
- kennedyi* W. M. Wheeler. Syn. of *cerasi* (Fitch).
- laeviuscula* Mayr. Common in central Tex. extending north and east into Kans., Mo. and La. south into Mexico. No authentic record east of the Miss. River. Incipient colonies in twigs and oak galls. Larger colonies in hollow trees and logs. Heterogonic growth strongly exhibited by the species.
- Oecodoma (Atta) arborea* Buckley (syn. by W. F. Buren in unpubl. thesis). Transf. from syn. of *laeviuscula* var. *clara* Mayr.
Taxonomy: G. C. and J. Wheeler, 1952. Wash. Acad. Sci. Jour. 42: 255-256, fig. 1, 5-7 (larva).
- laeviuscula* var. *clara* Mayr. Raised to sp. rank.
- lineolata cerasi* (Fitch). Raised to sp. rank.
- lineolata cerasi* var. *punctinodis* J. Enzmann. Syn. of *cerasi* (Fitch).
- lineolata cerasi* var. *wheldeni* J. Enzmann. Syn. of *lineolata lineolata* (Say).
- **lineolata emeryana* Creighton. Mts. of Ariz., Colo., N. Mex. and Utah. Nests mostly under stones in grassy places of over 6,000 ft. alt. Apparently sometimes constructs carton nests under stones.
- Crematogaster lineolata lineolata* var. Emery, 1895. Zool. Jahrb. Abt. f. System. 8: 282. ♀ ♀ ♂. (Var. descr. but not named).
- Crematogaster (Acrocoelia) lineolata emeryana* Creighton, 1950. Harvard Univ., Mus. Compar. Zool. Bul. 104: 213-214. ♀.
- lineolata lineolata* (Say). Common in south. Canada and Northern States, becoming less common southward but probably present in every state east of the Miss. River, extending west to the Rocky Mts. Nests in the ground under objects, or in logs and stumps.

Crematogaster (Crematogaster) lineolata var. *lutescens* Emery (syn. by W. F. Buren in unpubl. thesis).

Crematogaster (Crematogaster) lineolata cerasi var. *wheldeni* J. Enzmann (syn. by Buren, loc. cit. supra). Transf. from Unrecognized Forms of subgenus *Crematogaster*, p. 810.

Taxonomy: G. C. and J. Wheeler, 1952. Wash. Acad. Sci. Jour. 42: 250-252, fig. 1, 1-4 (larva).

lineolata subopaca Emery. Syn of *punctulata* Emery.

**lineolata subpilosa* W. M. Wheeler. *N. nudum* for *pilosa* Emery.

lineolata var. *lutescens* Emery. Syn of *lineolata lineolata* (Say).

mormonum Emery, changed status. Apparently confined to the Great Basin area; Nev., Utah, Idaho, and probably eastern Ore. Lives in large colonies under rocks in semi-desert.

Crematogaster (Crematogaster) coarctata mormonum Emery. Raised to sp. rank (teste W. F. Buren in unpubl. thesis).

**opaca* Mayr. Ariz. and Mexico. Only one authentic Ariz. record. (Tumacacori Mts. under stone among oaks, 3,900 ft.).

Crematogaster opaca Mayr, 1870. Zool.—Bot. Gesell. Wien, Verh. 20: 989. ♂.

opaca depilis W. M. Wheeler. Raised to sp. rank.

opaca punctulata Emery. Raised to sp. rank.

opaca var. *texana* Santschi. Syn. of *punctulata* Emery.

pilosa Emery. Coastal plains of Atlantic States from N. J. probably to Ga. Nests in the ground or under logs in humid situations near marshes or bogs. Delete—Host of the parasitic ant, *C. creightoni* Whlr.

* ? *Crematogaster lineolata subpilosa* W. M. Wheeler, 1913. Psyche 20: 115. *N. nudum*. (teste W. F. Buren in unpubl. thesis).

Crematogaster (Crematogaster) creightoni W. M. Wheeler (B-form ♀ and typical ♂), (syn. by W. F. Buren in unpubl. thesis). Delete—Parasitic in nest of *Crematogaster pilosa* Emery.

punctulata Emery, changed status. Great Plains of east. Colo. and Kans., south into Ariz., N. Mex., Tex. and Mexico, and east through southern States to Va. and Fla. The species exhibits some clinal tendencies in this large range but subspeciation is not clearly marked. Nests in the ground or occasionally under logs and stumps. More xerophilous than *cerasi* (Fitch) or *lineolata lineolata* (Say).

Crematogaster (Crematogaster) opaca punctulata Emery. Raised to sp. rank (teste W. F. Buren, in unpubl. thesis).

Crematogaster (Crematogaster) lineolata subopaca Emery (syn. by W. F. Buren, loc. cit. supra).

Crematogaster (Acrocoelia) opaca var. *texana* Santschi (syn. by Buren, loc. cit. supra). Transf. from Unrecognized Forms of Subgenus *Crematogaster*, p. 810.

vermiculata Emery. Known from only one or a few records each in Calif., La., Ark., Miss., Fla., Ga., S. C. Strictly arboreal; found almost exclusively in cypress swamps, although not necessarily in cypress trees.

Unrecognized Forms of Subgenus *Crematogaster* Lund, p. 810

Delete this heading from Catalog. Transf. *Crematogaster (Acrocoelia) lineolata cerasi* var. *punctinodis* J. Enzmann to *cerasi* (Fitch), p. 808.

Transf. *Myrmica novaeboracensis* Buckley and *Crematogaster (Acrocoelia) sanguinea coachellai* J. Enzmann to Unrecognized Forms of Myrmicinae, p. 833.

Transf. *Crematogaster (Acrocoelia) opaca* var. *texana* Santschi to *punctulata* Emery, p. 810, of which it is a synonym.

Transf. *Crematogaster (Acrocoelia) lineolata cerasi* var. *wheldeni* J. Enzmann to *lineolata lineolata* (Say), p. 809.

MONOMORIUM subgenus MONOMORIUM Mayr, pp. 810-811

Taxonomy: G. C. and J. Wheeler, 1955. Amer. Midland Nat. 54: 121-122, pl. 1, figs. 8-15 (larvae).

floricola (Jerdon).

Taxonomy: G. C. and J. Wheeler, 1955. Amer. Midland Nat. 54: 121 (larva).

minimum emersoni Gregg. Syn. of **minimum minimum** (Buckley).

minimum ergatogyna W. M. Wheeler. Syn. of **minimum minimum** (Buckley)

minimum minimum (Buckley).

Monomorium (Monomorium) minimum ergatogyna W. M. Wheeler (syn. by Creighton, 1950. Harvard Univ., Mus. Compar. Zool. Bul. 104: 219).

Monomorium (Monomorium) minimum emersoni Gregg (syn. by Creighton, *loc. cit. supra*).

Taxonomy: G. C. and J. Wheeler, 1955. Amer. Midland Nat. 54: 122 (larva).

peninsulatum Gregg. A subsp. of **viridum** W. L. Brown. Gulf Coast States.

pharaonis (Linnaeus).

Taxonomy: G. C. and J. Wheeler, 1955. Amer. Midland Nat. 54: 121, pl. 1, figs. 8-15 (larva).

Biology: Peacock and Baxter, 1949. Ent. Monthly Mag. 85: 256.—Peacock, 1950. *Op. cit.* 86: 129.—Peacock and Baxter, 1950. *Op. cit.* 86: 171-178.—Peacock, 1950. *Op. cit.* 86: 294.—Peacock, 1951. *Op. cit.* 87: 185-191.—Sudd, 1953. Advancement of Sci. (Brit.) 10: 17.—Peacock, Smith, Hall, and Baxter, 1954. Ent. Monthly Mag. 90: 154.—Peacock, Sudd and Baxter, 1955. *Op. cit.* 91: 125, 130.

Morphology: Hall and Smith, 1951. Ent. Monthly Mag. 87: 217, figs. 1-9.—Hall and Smith, 1952. *Op. cit.* 88: 97, figs. 1-7.—Hall and Smith, 1953. Evolution 7: 127, figs. 1-18.—Hall and Smith, 1954. Ent. Monthly Mag. 90: 176, figs. 1-3, 4-11, 12-15.

viridum peninsulatum Gregg, changed status.

Monomorium (Monomorium) peninsulatum Gregg. Reduced to subsp. rank (*teste* Creighton, 1950. Harvard Univ., Mus. Compar. Zool. Bul. 104: 223).

MONOMORIUM subgenus PARHOLCOMYRMEX Emery, p. 811

Taxonomy: G. C. and J. Wheeler, 1955. Amer. Midland Nat. 54: 123 (larvae).

Genus XENOMYRMEX Forel, p. 811

***stolli cubanus** W. M. Wheeler. Syn. of **stollii floridanus** Emery.

stollii floridanus Emery.

Xenomyrmex stollii rufescens W. M. Wheeler (syn. by Creighton, 1950. Harvard Univ., Mus. Compar. Zool. Bul. 104: 226).

***Xenomyrmex stolli cubanus** W. M. Wheeler, 1931. Rev. de Ent. 1: 134-135, fig. 2. ♀. (Syn. by Creighton, 1953. Amer. Mus. Novitates 1634: 2).

Xenomyrmex stollii floridanus var. **lucayanus** W. M. Wheeler, 1905. Amer. Mus. Nat. Hist. Bul. 21: 87. ♀. (Syn. by Creighton, 1953, *loc. cit. supra*).

***stollii floridanus** var. **lucayanus** W. M. Wheeler. Syn. of **stollii floridanus** Emery.

stollii rufescens W. M. Wheeler. Syn. of **stollii floridanus** Emery.

SOLENOPSIS subgenus SOLENOPSIS Westwood, pp. 812-813

Taxonomy: G. C. and J. Wheeler, 1955. Amer. Midland Nat. 54: 131-132 (larvae).

aurea amblychila W. M. Wheeler, changed status.

Solenopsis (Solenopsis) xyloni amblychila W. M. Wheeler. A subsp. of **aurea**, not of **xyloni** (*teste* Creighton, 1950. Harvard Univ., Mus. Compar. Zool. Bul. 104: 230).

aurea aurea W. M. Wheeler, changed status.

Solenopsis (Solenopsis) xyloni aurea W. M. Wheeler. A subsp. of **aurea**, not of **xyloni** McCook (*teste* Creighton, 1950. Harvard Univ., Mus. Compar. Zool. Bul. 104: 230).

geminata geminata (Fabricius)

Taxonomy: G. C. and J. Wheeler, 1955. Amer. Midland Nat. 54: 132-133, pl. 3, figs. 14-24 (larva).

***pylades** var. **quinquecuspis** Forel. Syn. of **saevissima richteri** Forel.

saevissima richteri Forel, changed status. Introduced. All States with infestations from N. C. to Ark. and Tex. and south. Largest areas in Ala., Miss., La.

Solenopsis (Solenopsis) saevissima var. **richteri** Forel. Raised to subsp. rank (*teste* Creighton, 1950. Harvard Univ., Mus. Compar. Zool. Bul. 104: 232).

***Solenopsis pylades** var. **quinquecuspis** Forel, 1913. Soc. Vaud des Sci. Nat. Bul. 49: 224. ♀. (Syn. by Wilson, 1952. Mem. do Inst. Oswaldo Cruz (Rio de Janeiro) 50: 66.)

Biology: Green, 1952. Jour. Econ. Ent. 45: 593.—Culpepper, 1953. U. S. Dept. Agr., Bur. Ent. and Pl. Quar., E-867.

Economics: Anonymous, 1954. U. S. D. A. Leaflet 350 (illus.).

Taxonomy: Wilson, 1951. Evolution 5: 68-79, 5 figs.

saevissima var. **richteri** Forel. A subsp. of **saevissima** (F. Smith).

xyloni McCook, changed status. Calif.

Solenopsis (Solenopsis) xyloni xyloni McCook. Raised to sp. rank (*teste* Creighton, 1950. Harvard Univ., Mus. Compar. Zool. Bul. 104: 232).

Solenopsis (Solenopsis) xyloni var. **maniosa** W. M. Wheeler (syn. by Creighton, *loc. cit. supra.*)

Taxonomy: G. C. and J. Wheeler, 1955. Amer. Midland Nat. 54: 133 (larva).

xyloni amblychila W. M. Wheeler. A subsp. of **aurea** W. M. Wheeler.

xyloni aurea W. M. Wheeler. A subsp. of **aurea**, not of **xyloni** McCook.

xyloni xyloni McCook. Raised to sp. rank.

xyloni var. **maniosa** W. M. Wheeler. Syn. of **xyloni** McCook.

SOLENOPSIS subgenus EUOPHTHALMA Creighton, p. 813

huachucana W. M. Wheeler.

Taxonomy: Creighton, 1930. Amer. Acad. Arts and Sci. Proc. 66: 118-120. ♀ ♀.

SOLENOPSIS subgenus DIPLORHOPTRUM Mayr, pp. 813-814

Taxonomy: G. C. and J. Wheeler, 1955. Amer. Midland Nat. 54: 133-136, pl. 3, figs. 25-31.

carolinensis Forel, changed status. Tenn. to south. New England.

Solenopsis (Diplorhoptrum) texana carolinensis Forel. Raised to sp. rank (*teste* Creighton, 1950. Harvard Univ., Mus. Compar. Zool. Bul. 104: 236).

krockowi W. M. Wheeler. Mexico.

molesta molesta (Say). Canada, eastern and central U. S.

Taxonomy: G. C. and J. Wheeler, 1955. Amer. Midland Nat. 54: 134-135, pl. 3, figs. 25-27 (larva).

molesta validiuscula Emery.

Taxonomy: G. C. and J. Wheeler, 1955. Amer. Midland Nat. 54: 135 (larva).

molesta var. *castanea* W. M. Wheeler. Syn. of *texana truncorum* Forel.

picta Emery. Fla. to Tex.

Solenopsis (Diplorhoptrum) picta var. *moerens* W. M. Wheeler (syn. by Creighton, 1950. Harvard Univ., Mus. Compar. Zool. Bul. 104: 237).

picta var. *moerens* W. M. Wheeler. Syn. of *picta* Emery.

rosella Kennedy. Syn. of *texana texana* Emery.

salina W. M. Wheeler. Tex. to Calif. and Mexico.

texana carolinensis Forel. Raised to sp. rank.

texana texana Emery. Ont. to Tex. and southeast. U. S.

Solenopsis (Diplorhoptrum) rosella Kennedy (syn. by Creighton, 1950. Harvard Univ., Mus. Compar. Zool. Bul. 104: 238).

Taxonomy: G. C. and J. Wheeler, 1955. Amer. Midland Nat. 54: 136 (larva).

texana truncorum Forel. Southeast. U. S., west to Rocky Mts.

Solenopsis (Diplorhoptrum) molesta var. *castanea* W. M. Wheeler (syn. by Creighton, 1950. Harvard Univ., Mus. Compar. Zool. Bul. 104: 239).

Unrecognized Form of Subgenus *Diplorhoptrum* Mayr, p. 814

Delete from Catalog. Transf. *Solenopsis madara* Roger to p. 833 under Unrecognized Forms of Myrmicinae.

Genus *ANERGATES* Forel, p. 815

Taxonomy: G. C. and J. Wheeler, 1955. Amer. Midland Nat. 54: 128 (larvae).

atratus (Schenck)

Anergates friedlandi Creighton (syn. by Creighton, 1950. Harvard Univ., Mus. Compar. Zool. Bul. 104: 243).

Taxonomy: G. C. and J. Wheeler, 1955. Amer. Midland Nat. 54: 128-130, pl. 2, figs. 22-30 (larva).

friedlandi Creighton. Syn. of *atratus* (Schenck).

Genus *EREBOMYRMA* W. M. Wheeler, p. 815

Taxonomy: G. C. and J. Wheeler, 1953. Psyche 60: 141, fig. 1, G-I (larvae).

Genus *MYRMECINA* Curtis, pp. 815-816

Taxonomy. W. L. Brown, 1951. Brooklyn Ent. Soc. Bul. 46: 103-106.—
G. C. and J. Wheeler, 1954. Ent. Soc. Wash. Proc. 56: 129-131, pl. 2, figs. 17-21 (larvae).

americana Emery, changed status.

Myrmecina americana americana Emery. Raised to sp. rank (*teste* W. L. Brown, 1949. Psyche 56: 44).

Myrmecina americana texana W. M. Wheeler (syn. by W. L. Brown, 1951. Brooklyn Ent. Soc. Bul. 46: 103).

Taxonomy: G. C. and J. Wheeler, 1954. Ent. Soc. Wash. Proc. 56: 130, pl. 2, figs. 17-21 (larva).

americana texana W. M. Wheeler. Syn. of *americana* Emery.

Genus *MACROMISCHA* Roger, p. 816

Taxonomy: G. C. and J. Wheeler, 1955. Ent. Soc. Amer. Ann. 48: 17-18, pl. 1, figs. 1-7 (larvae).

LEPTOTHORAX subgenus **NESOMYRMEX** W. M. Wheeler, pp. 816-817

Taxonomy: G. C. and J. Wheeler, 1955. Ent. Soc. Amer. Ann. 48: 25 (larvae).

LEPTOTHORAX subgenus MYRAFANT M. R. Smith, pp. 817-819

Taxonomy: M. R. Smith, 1952. N. Y. Ent. Soc. Jour. 60: 96-106 (tricarinatus—texanus complex).—W. L. Brown, 1955. Ent. News 66: 43.—G. C. and J. Wheeler, 1955. Ent. Soc. Amer. Ann. 48: 22-25, fig. 1, H-N (larvae).—Cole, 1956. Tenn. Acad. Sci. Jour. 31: 30-31 (tricarinatus—texanus complex).

ambiguus ambiguus Emery, changed status. N. Dak.

Leptothorax (Myrafant) curvispinosus ambiguus Emery. A subsp. of **ambiguus** not of **curvispinosus** (*teste* Creighton, 1950. Harvard Univ., Mus. Compar. Zool. Bul. 104: 261-263).

Taxonomy: G. C. and J. Wheeler, 1955. Ent. Soc. Amer. Ann. 48: 22-23, fig. 1, H-N (larva).

ambiguus foveatus M. R. Smith, changed status.

Leptothorax (Myrafant) foveata M. R. Smith. Reduced to subsp. rank (*teste* Creighton, 1950. Harvard Univ., Mus. Compar. Zool. Bul. 104: 263).

ambiguus pinetorum L. G. and R. G. Wesson, changed status.

Leptothorax (Myrafant) curvispinosus ambiguus var. *pinetorum* L. G. and R. G. Wesson. A subsp. of **ambiguus** not a var. (*teste* Creighton, 1950. Harvard Univ., Mus. Compar. Zool. Bul. 104: 263).

***angustinodus** Cole. Preocc. New name, *stenotyle* Cole.

bradleyi W. M. Wheeler. Ala.

Taxonomy: Wilson, 1952. Ent. News 63: 68-71. ♀ ♀ ♂.

curvispinosus Mayr, changed status.

Leptothorax (Myrafant) curvispinosus curvispinosus Mayr. Raised to sp. rank (*teste* Creighton, 1950. Harvard Univ., Mus. Compar. Zool. Bul. 104: 263-264).

curvispinosus ambiguus Emery. A subsp. of **ambiguus** Emery.

curvispinosus ambiguus var. *pinetorum* L. G. and R. G. Wesson. A subsp. of **ambiguus** Emery.

eldoradensis W. M. Wheeler. A subsp. of **nevadensis** W. M. Wheeler.

fortinodis Mayr. Syn. of *schaumi* Roger.

fortinodis var. *gilvus* W. M. Wheeler. Syn. of *schaumi* Roger.

fortinodis var. *melanoticus* W. M. Wheeler. Syn. of *schaumi* Roger.

foveata M. R. Smith. A subsp. of **ambiguus** Emery. ? Iowa.

longispinosus Roger, changed status.

Leptothorax (Myrafant) longispinosus longispinosus Roger. Raised to sp. rank (*teste* Creighton, 1950. Harvard Univ., Mus. Compar. Zool. Bul. 104: 264).

Leptothorax (Myrafant) longispinosus iowensis Buren (syn. by Creighton, *loc. cit. supra*).

Taxonomy: G. C. and J. Wheeler, 1955. Ent. Soc. Amer. Ann. 48: 24 (larva).

longispinosus iowensis Buren. Syn. of **longispinosus** Roger.

melanderi W. M. Wheeler. A subsp. of **nevadensis** W. M. Wheeler.

neomexicanus W. M. Wheeler. A subsp. of **tricarinatus** Emery.

nevadensis eldoradensis W. M. Wheeler, changed status.

Leptothorax (Myrafant) eldoradensis W. M. Wheeler. Reduced to subsp. rank (*teste* Creighton, 1950. Harvard Univ., Mus. Compar. Zool. Bul. 104: 266).

nevadensis melanderi W. M. Wheeler, changed status.

Leptothorax (Myrafant) melanderi W. M. Wheeler. Reduced to subsp. rank (*teste* Creighton, 1950. Harvard Univ. Mus. Compar. Zool. Bul. 104: 266).

nevadensis nevadensis W. M. Wheeler. Calif., Oreg., Wash.

nitens heathii W. M. Wheeler, changed status.

Leptothorax (Myrafant) nitens var. *heathii* W. M. Wheeler. Raised to subsp. rank (*teste* Creighton, 1950. Harvard Univ., Mus. Compar. Zool. Bul. 104: 265).

nitens nitens Emery. Tex.

Leptothorax (Myrafant) nitens var. *mariposa* W. M. Wheeler (syn. by Creighton, 1950. Harvard Univ., Mus. Compar. Zool. Bul. 104: 265).

Leptothorax (Myrafant) nitens occidentalis W. M. Wheeler (syn. by Creighton, *loc. cit. supra*).

nitens occidentalis W. M. Wheeler. Syn. of **nitens nitens** Emery.

nitens var. *heathii* W. M. Wheeler. Raised to subsp. rank.

nitens var. *mariposa* W. M. Wheeler. Syn. of **nitens nitens** Emery.

***obliquicanthus** Cole. Colo., N. Mex. (In *tricarinatus*—*texanus* complex.).

Leptothorax (Myrafant) obliquicanthus Cole, 1953. Ent. Soc. Wash. Proc. 55: 28-30, figs. 1, 2. ♀.

Taxonomy: Gregg, 1953. Breviora 22: 1-3, fig. 1. ♀.

obturator W. M. Wheeler.

Taxonomy: G. C. and J. Wheeler, 1955. Ent. Soc. Amer. Ann. 48: 24 (larva).

rugatulus annectens W. M. Wheeler. Syn. of **rugatulus rugatulus** Emery.

rugatulus brunnescens W. M. Wheeler.

Leptothorax (Myrafant) rugatulus dakotensis G. C. and E. W. Wheeler (syn. by Creighton, 1950. Harvard Univ., Mus. Compar. Zool. Bul. 104: 269).

Taxonomy: G. C. and J. Wheeler, 1955. Ent. Soc. Amer. Ann. 48: 25 (larva).

rugatulus dakotensis G. C. and E. W. Wheeler. Syn. of **rugatulus brunnescens** Wheeler.

rugatulus rugatulus Emery.

Leptothorax (Myrafant) rugatulus annectens W. M. Wheeler (syn. by Creighton, 1950. Harvard Univ. Mus., Compar. Zool. Bul. 104: 269).

Leptothorax (Myrafant) rugatulus var. *cockerelli* W. M. Wheeler (syn. by Creighton, *loc. cit. supra*).

Leptothorax (Myrafant) rugatulus var. *mediorufus* W. M. Wheeler (syn. by Creighton, *loc. cit. supra*).

Biology: Cole, 1954. Tenn. Acad. Sci. Jour. 29: 240.

rugatulus var. *cockerelli* W. M. Wheeler. Syn. of **rugatulus rugatulus** Emery.

rugatulus var. *mediorufus* W. M. Wheeler. Syn. of **rugatulus rugatulus** Emery.

schaumi Roger. Maine, Tenn.

Leptothorax (Myrafant) fortinodis Mayr (syn. by Creighton, 1950. Harvard Univ., Mus. Compar. Zool. Bul. 104: 271).

Leptothorax (Myrafant) fortinodis var. *gilvus* W. M. Wheeler (syn. by Creighton, *loc. cit. supra*).

Leptothorax (Myrafant) fortinodis var. *melanoticus* W. M. Wheeler (syn. by Creighton, *loc. cit. supra*).

silvestrii (Santschi). Ariz. Nests in evergreen oaks at altitudes of 3,500 ft. or more. Transf. from Unrecognized Forms of Myrmicinae, p. 833 (*teste* Creighton, 1950. Harvard Univ., Mus. Compar. Zool. Bul. 104: 271).

Taxonomy: Creighton, 1953. Amer. Mus. Novitates 1635: 1-7, figs. 1-6. ♂ ♀ ♂.

***stenotyle** Cole. Ariz. (near Rustler's Park, Chiricahua Mts.). (In *tricarinatus* - *texanus* complex.).

Leptothorax (Leptothorax) angustinodus Cole, 1956. Tenn. Acad. Sci. Jour. 31: 28-30. ♂ ♀. Preocc.

Leptothorax (Leptothorax) stenotyle Cole, 1956. Tenn. Acad. Sci. Jour. 31: 214. N. name.

texanus davisii W. M. Wheeler. Fla.

Taxonomy: M. R. Smith, 1951. N. Y. Ent. Soc. Jour. 60: 104-106. ♂.

texanus texanus W. M. Wheeler. Ala., Ind., Ga.

Taxonomy: M. R. Smith, 1952. N. Y. Ent. Soc. Jour. 60: 102-104. ♂.

tricarinatus neomexicanus W. M. Wheeler, changed status. Utah.

Leptothorax (Myrafant) neomexicanus W. M. Wheeler. Reduced to subsp. rank (*teste* Creighton, 1950. Harvard Univ., Mus. Compar. Zool. Bul. 104: 273).

Biology: Cole, 1953. Ent. Soc. Wash. Proc. 55: 28.

Taxonomy: M. R. Smith, 1952. N. Y. Ent. Soc. Jour. 60: 100-102. ♂.

tricarinatus tricarinatus Emery, changed status. Colo., Utah, Wyo.

Leptothorax (Myrafant) tricarinatus Emery. Reduced to subsp. rank (*teste* Creighton, 1950. Harvard Univ., Mus. Compar. Zool. Bul. 104: 273).

Taxonomy: M. R. Smith, 1952. N. Y. Ent. Soc. Jour. 60: 98-100. ♂ ♂.

**tuscaloosae* Wilson. Ala. (Tuscaloosa).

Leptothorax (Myrafant) tuscaloosae Wilson, 1950. Psyche 57: 128-130. ♂ ♀.

wheeleri M. R. Smith.

Taxonomy: Wilson, 1952. Ent. News 60: 67-68, 70. ♂ ♂.

LEPTOTHORAX subgenus DICHOTHORAX Emery, p. 820

pergandei flavus M. R. Smith. Syn. of *pergandei floridanus* Emery.

pergandei floridanus Emery. N. J.

Leptothorax (Dichothorax) pergandei floridanus var. *spinosus* M. R. Smith (syn. by Creighton, 1950. Harvard Univ., Mus. Compar. Zool. Bul. 104: 260).

Leptothorax (Dichothorax) pergandei flavus M. R. Smith (syn. by Creighton, *loc. cit. supra*).

pergandei floridanus var. *spinosus* M. R. Smith. Syn. of *pergandei floridanus* Emery.

LEPTOTHORAX subgenus LEPTOTHORAX Mayr, pp. 820-822

Taxonomy: W. L. Brown, 1955. Ent. News 66: 43-50.—G. C. and J. Wheeler, 1955. Ent. Soc. Amer. Ann. 48: 21-22 (larvae).

acervorum canadensis Provancher. Syn. of *muscorum* (Nylander).

acervorum canadensis var. *calderoni* Forel. Syn. of *muscorum* (Nylander).

acervorum canadensis var. *convivialis* W. M. Wheeler. Syn. of *muscorum* (Nylander).

acervorum canadensis var. *kincaidi* Pergande. Syn. of *muscorum* (Nylander).

acervorum canadensis var. *yankee* Emery. Syn. of *muscorum* (Nylander).

acervorum crassipilis W. M. Wheeler. Raised to sp. rank.

crassipilis W. M. Wheeler, changed status. Ariz., Nev., N. Mex., Utah, Wyo.

Leptothorax (Leptothorax) acervorum crassipilis W. M. Wheeler. Raised to sp. rank (*teste* Creighton, 1950. Harvard Univ., Mus. Compar. Zool. Bul. 104: 278).

Biology: Cole, 1953. Ent. Soc. Wash. Proc. 55: 27.

Taxonomy: Cole, 1954. Tenn. Acad. Sci. Jour. 29: 240-241.

diversipilosus M. R. Smith.

Taxonomy: M. R. Smith, 1956. Ent. Soc. Wash. Proc. 58: 271-275, fig. 1, ♀ ergatoid ♂.

duloticus L. G. Wesson. Mich., ? Ill.

emersoni emersoni W. M. Wheeler. Syn. of *provancheri* Emery.

emersoni glacialis W. M. Wheeler. Syn. of *provancheri* Emery.

emersoni hirtipilis W. M. Wheeler. Syn. of *provancheri* Emery.

hirticornis Emery.

**Leptothorax (Mychothorax) hirticornis formidosus* W. M. Wheeler, 1915. Amer. Mus. Nat. Hist. Bul. 34: 415. ♀ ♀. (Syn. by M. R. Smith, 1939. Ent. Soc. Wash. Proc. 41: 177.)

**hirticornis formidosus* W. M. Wheeler. Syn. of *hirticornis* Emery.

**muscorum* (Nylander). Eurasia, and America north of Mexico.

Myrmica muscorum Nylander, 1846. Acta Soc. Sci. Fenn. 2: 1054.

♀ ♀ ♂.

Leptothorax (Leptothorax) acervorum canadensis Provancher (syn. by W. L. Brown, 1955. Ent. News 66: 47.

Leptothorax (Leptothorax) acervorum canadensis var. *convivialis* W. M. Wheeler (syn. by Creighton, 1950. Harvard Univ., Mus. Compar. Zool. Bul. 104: 276).

Leptothorax (Leptothorax) acervorum canadensis var. *calderoni* Forel (syn. by W. L. Brown, loc. cit. supra).

Leptothorax (Leptothorax) muscorum var. *septentrionalis* W. M. Wheeler (syn. by Creighton, loc. cit. supra).

Leptothorax (Leptothorax) acervorum canadensis var. *yankee* Emery (syn. by W. L. Brown, loc. cit. supra).

Leptothorax (Leptothorax) muscorum var. *sordidus* W. M. Wheeler (syn. by Creighton, loc. cit., supra, p. 277).

Leptothorax (Leptothorax) acervorum canadensis var. *kincaidi* Pergande (syn. by W. L. Brown, loc. cit. supra).

Taxonomy: G. C. and J. Wheeler, 1955. Ent. Soc. Amer. Ann. 48: 21 (larva).

Ecology: W. L. Brown, 1955. Ent. News 66: 47-50.

muscorum var. *septentrionalis* W. M. Wheeler. Syn. of *muscorum* (Nylander).

muscorum var. *sordidus* W. M. Wheeler. Syn. of *muscorum* (Nylander).

provancheri Emery. Mich., N. Dak., N. Mex.

Leptothorax (Leptothorax) emersoni emersoni W. M. Wheeler (syn. by Creighton, 1950. Harvard Univ., Mus. Compar. Zool. Bul. 104: 279).

Leptothorax (Leptothorax) emersoni hirtipilis W. M. Wheeler (syn. by Creighton, loc. cit. supra).

Leptothorax (Leptothorax) emersoni glacialis W. M. Wheeler (syn. by Cole, 1954. Tenn. Acad. Sci. Jour. 29: 241).

Genus HARPAGOXENUS Forel, p. 822

Taxonomy: G. C. and J. Wheeler, 1955. Ent. Soc. Amer. Ann. 48: 26-28, figs. 24-29 (larvae).

americanus (Emery). Mo.

Taxonomy: G. C. and J. Wheeler, 1955. Ent. Soc. Amer. Ann. 48: 26-27, pl. 1, figs. 24-29 (larva).

Genus TRIGLYPHOTHRIX Forel, p. 823

Taxonomy: G. C. and J. Wheeler, 1954. Amer. Midland Nat. 52: 451 (larva of *areolatus* Stitz).

Genus TETRAMORIUM Mayr, pp. 823-824

Taxonomy: G. C. and J. Wheeler, 1954. Amer. Midland Nat. 52: 445 (larvae).

caespitum (Linnaeus). Ont.

Taxonomy: G. C. and J. Wheeler, 1954. Amer. Midland Nat. 52: 445-447, pl. 1, figs. 1-11 (larva).

guineense (Fabricius).

Taxonomy: G. C. and J. Wheeler, 1954. Amer. Midland Nat. 52: 449-450 (larvae).

Genus XIPHOMYRMEX Forel, p. 824

Taxonomy: G. C. and J. Wheeler, 1954. Amer. Midland Nat. 52: 450 (larvae).

Genus WASMANNIA Forel, pp. 824-825

Taxonomy: G. C. and J. Wheeler, 1954. Amer. Midland Nat. 52: 444 (larvae).

aeropunctata (Roger)

Taxonomy: M. R. Smith, 1954. Amer. Mus. Novitates 1671: 7-8.—G. C. and J. Wheeler, 1954. Amer. Midland Nat. 52: 444 (larva).

PARACRYPTOCERUS subgenus HARNEDIA M. R. Smith, p. 825

Taxonomy: Kempf, 1951. Rev. de Ent. (Rio de Janeiro) 22: 156, 157, 233.—G. C. and J. Wheeler, 1954. Wash. Acad. Sci. Jour. 44: 156-157, figs. 39-40, 42-44 (larvae).

texasus Santschi.

Biology: Creighton, 1954. Psyche 61: 41-57, 2 pls., 3 text figs.

PARACRYPTOCERUS subgenus CYATHOMYRMEX Creighton, p. 825

Taxonomy: Kempf, 1951. Rev. de Ent. (Rio de Janeiro) 22: 156-157.

varians (F. Smith).

Taxonomy: G. C. and J. Wheeler, 1954. Wash. Acad. Sci. Jour. 44: 156 (larva).

STRUMIGENYS subgenus STRUMIGENYS F. Smith, pp. 825-826

**Proscopomyrmex* Patrizi, 1946. Bol. Inst. Ent. R. Univ. Bologna 15: 294.

Type: *Proscopomyrmex londianensis* Patrizi. By monotypy.

**Eneria* Donisthorpe, 1947. Ann. Mag. Nat. Hist. 14: 598.

Type: (*Eneria excisa* Donisthorpe) = *Strumigenys Loriae* Emery. By monotypy.

Biology: W. L. Brown, 1950. Brooklyn Ent. Soc. Bul. 45: 87-89.

Taxonomy: W. L. Brown, 1948. Amer. Ent. Soc. Trans. 74: 108.—G. C. and J. Wheeler, 1954. Psyche 61: 135 (larvae).

The extralimital genera listed above have been synonymized by W. L. Brown, 1949. Mushi 20: 14.

louisianae Roger. Mexico, South America.

Biology: Wilson, 1950. Brooklyn Ent. Soc. Bul. 45: 85-86.

Taxonomy: W. L. Brown, 1953. Amer. Midland Nat. 50: 28-31, fig. 1. ♀.

SMITHISTRUMA subgenus WESSONISTRUMA W. L. Brown, p. 826

Taxonomy: W. L. Brown, 1953. Amer. Midland Nat. 50: 50-55, text fig. 1, pl. 3, fig. 28.—G. C. and J. Wheeler, 1954. Psyche 61: 144-145 (larvae).

angulata (M. R. Smith).

Taxonomy: W. L. Brown, 1953. Amer. Midland Nat. 50: 54-55. ♀ ♀.

pergandei (Emery).

Biology: W. L. Brown, 1952. Psyche 59: 12.—Wilson, 1953. Ent. Soc. Amer. Ann. 46: 487-488.

Taxonomy: W. L. Brown, 1953. Amer. Midland Nat. 50: 51-54, text fig. 5, pl. 3, fig. 29. ♀ ♀ ♂.

SMITHISTRUMA subgenus SMITHISTRUMA W. L. Brown, pp. 826-828

Biology: W. L. Brown, 1950. Brooklyn Ent. Soc. Bul. 45: 87-89.—Wilson, 1953. Ent. Soc. Amer. Ann. 46: 485-487.

Taxonomy: W. L. Brown, 1953. Amer. Midland Nat. 50: 55-92, 4 text figs, 3 pls.—G. C. and J. Wheeler, 1954. Psyche 61: 141-144, pl. 9, figs. 11-18 (larvae).

abdit (L. G. and R. G. Wesson).

Taxonomy: W. L. Brown, 1953. Amer. Midland Nat. 50: 89-90, pl. 1, fig. 3. ♀ ♀.

bimarginata (L. G. and R. G. Wesson).

Taxonomy: W. L. Brown, 1953. Amer. Midland Nat. 50: 62-63. ♀ ♀.

brevisetosa (M. R. Smith).

Taxonomy: W. L. Brown, 1953. Amer. Midland Nat. 50: 59-60. ♀ ♀.

bunki W. L. Brown.

Taxonomy: W. L. Brown, 1953. Amer. Midland Nat. 50: 82-84, pl. 1, figs. 6-10. ♀ ♀.

californica W. L. Brown.

Taxonomy: W. L. Brown, 1953. Amer. Midland Nat. 50: 85-86. ♀.

***cloydi** Pfitzer. Tenn. (Knoxville).

Smithistruma cloydi Pfitzer, 1951. Tenn. Acad. Sci. Jour. 26: 198-200, pl. 1, figs. 1-3. ♀.

clypeata (Roger). Va. (in cave, Luray Caverns).

Biology: M. R. Smith, 1955. Brooklyn Ent. Soc. Bul. 50: 28.

Taxonomy: W. L. Brown, 1953. Amer. Midland Nat. 50: 58-59, pl. 2, fig. 16. ♀ ♀ ♂.

creightoni (M. R. Smith). Fla., Ga., Tenn.

Taxonomy: W. L. Brown, 1953. Amer. Midland Nat. 50: 80-81, pl. 1, fig. 1. ♀ ♀.

dietrichi (M. R. Smith).

Taxonomy: W. L. Brown, 1953. Amer. Midland Nat. 50: 67-68, fig. 8. ♀ ♀.

filirrhina W. L. Brown

Taxonomy: W. L. Brown, 1953. Amer. Midland Nat. 50: 63-64. ♀.

filitalpa W. L. Brown.

Taxonomy: W. L. Brown, 1953. Amer. Midland Nat. 50: 79-80, pl. 1, fig. 8. ♀.

laevinasis (M. R. Smith).

Taxonomy: W. L. Brown, 1953. Amer. Midland Nat. 50: 61-62, fig. 6. ♀ ♀.

margaritae (Forel). Ga.; Mexico, Colombia.

Taxonomy: W. L. Brown, 1953. Amer. Midland Nat. 50: 108-110, pl. 2, fig. 20. ♀ ♀ ♂.

missouriensis (M. R. Smith).

Taxonomy: W. L. Brown, 1953. Amer. Midland Nat. 50: 72-73, text fig. 9, pl. 1, fig. 7. ♀ ♀.

ohioensis (Kennedy and Schramm). Ala., Del., Md.

Taxonomy: W. L. Brown, 1953. Amer. Midland Nat. 50: 87-89, pl. 1, fig. 4; pl. 2, fig. 19; pl. 3, fig. 30. ♀ ♀ ♂.

ornata (Mayr).

Taxonomy: W. L. Brown, 1953. Amer. Midland Nat. 50: 65-67, text fig. 7, pl. 1, fig. 2. ♀ ♀.

pilinas (Forel).

Taxonomy: W. L. Brown, 1953. Amer. Midland Nat. 50: 60-61. ♀ ♀.

pulchella (Emery).

Taxonomy: W. L. Brown, 1953. Amer. Midland Nat. 50: 70-72. ♀ ♀ ♂.

reflexa (L. G. and R. G. Wesson).

Taxonomy: W. L. Brown, 1953. Amer. Midland Nat. 50: 73-75. ♀ ♀ ♂.

rohweri (M. R. Smith).

Taxonomy: W. L. Brown, 1953. Amer. Midland Nat. 50: 57-58. ♀.

rostrata (Emery). N. J. to Ill. south to Gulf of Mex., also La., Mo.

Taxonomy: W. L. Brown, 1953. Amer. Midland Nat. 50: 84-85, text. figs. 2, 4, pl. 2, fig. 26, pl. 3, figs. 28, 32. ♀ ♀ ♂.—G. C. and J. Wheeler, 1954. Psyche 61: 144 (larva).

talpa (Weber). La.

Taxonomy: W. L. Brown, 1953. Amer. Midland Nat. 50: 76-78, pl. 1, fig. 5; pl. 3, fig. 31. ♂ ♀ ♂.—G. C. and J. Wheeler, 1954. Psyche 61: 141, pl. 9, figs. 11-18 (larva).

wrayi W. L. Brown.

Taxonomy: W. L. Brown, 1953. Amer. Midland Nat. 50: 78-79, pl. 1, fig. 9. ♀.

Genus TRICHOSCAPA Emery, p. 829

Biology: Wilson, 1953. Ent. Soc. Amer. Ann. 46: 483-485.—G. C. and J. Wheeler, 1954. Psyche 61: 145 (larvae).

membranifera (Emery).

Biology: Weber, 1952. Amer. Mus. Novitates 1554: 7.

Taxonomy: W. L. Brown, 1949. Mushi 20: 7, 22.

Genus QUADRISTRUMA W. L. Brown, p. 829**emmae** (Emery).

**Epitritus wheeleri* Donisthorpe, 1916. Ent. Rec. 28: 121. ♀ (syn. by W. L. Brown, 1949. Amer. Ent. Soc. Trans. 75: 48).

Biology: W. L. Brown, 1949. Mushi 20: 21.

wheeleri (Donisthorpe). Syn. of *emmae* (Emery).

CYPHOMYRMEX subgenus CYPHOMYRMEX Mayr, pp. 829-830

Biology: Weber, 1955. Sci. 121: 109.

Taxonomy: G. C. Wheeler, 1948. Amer. Midland Nat. 40: 668-670, pl. 2, figs. 1-8 (larvae).

rimosus (Spinola).

Cyphomyrmex (Cyphomyrmex) rimosus var. *comalensis* W. M. Wheeler (syn. by Creighton, 1950. Harvard Univ., Mus. Compar. Zool. Bul. 104: 316) under *minutus* Mayr, which is a syn. of *rimosus*.

Biology: Weber, 1947. Bol. de Ent. Venezolana 6: 144.—Weber, 1955. Wash. Acad. Sci. Jour. 45: 275-281, 2 figs.

Taxonomy: G. C. Wheeler, 1948. Amer. Midland Nat. 40: 668, pl. 2, figs. 1-6 (larva).

rimosus var. *comalensis* W. M. Wheeler. Syn. of *rimosus* (Spinola).

Genus TRACHYMYRMEX Forel, pp. 830-831

Biology: Weber, 1955. Sci. 121: 109.

Taxonomy: Weber, 1945. Rev. de Ent. (Rio de Janeiro) 16: 44, figs. 1, 2.—G. C. Wheeler, 1948. Amer. Midland Nat. 40: 673-674, pl. 2, figs. 14-19 (larvae).

jamaicensis (André).

Biology: M. R. Smith, 1936. Puerto Rico Univ. Jour. Agr. 20: 860.

**nogalensis* Byars. Ariz. (Nogales). (In *arizonensis-saussurei* complex).

Trachymyrmex nogalensis Byars, 1951. Ent. Soc. Wash. Proc. 53: 109-111, figs. 1, 2. ♂ ♀.

septentrionalis obscurior (W. M. Wheeler).

Trachymyrmex septentrionalis obscurior var. *crystallina* (W. M. Wheeler) (syn. by Creighton, 1950. Harvard Univ., Mus. Compar. Zool. Bul. 104: 324).

Trachymyrmex septentrionalis obscurior var. *irrorata* (W. M. Wheeler) (syn. by Creighton, loc. cit. supra).

Taxonomy: G. C. Wheeler, 1948. Amer. Midland Nat. 40: 673, pl. 2, figs. 14-19 (larva).

septentrionalis obscurior var. *crystallina* (W. M. Wheeler). A syn. of *septentrionalis obscurior* (W. M. Wheeler).

septentrionalis obscurior var. *irrorata* (W. M. Wheeler). A syn. of *septentrionalis obscurior* (W. M. Wheeler).

septentrionalis obscurior var. *seminole* (W. M. Wheeler). A subsp. of *septentrionalis* (McCook).

septentrionalis seminole (W. M. Wheeler), changed status.

Trachymyrmex septentrionalis obscurior var. *seminole* (W. M. Wheeler). raised to subsp. rank (*teste* Creighton, 1950. Harvard Univ., Mus. Compar. Zool. Bul. 104: 324).

Biology: Cole, (1950) 1951. Ent. Soc. Amer. Ann. 43: 499-500.—Weber, 1956. Ecology 37: 197-199.

septentrionalis septentrionalis (McCook).

Trachymyrmex septentrionalis var. *vertebrata* (W. M. Wheeler) (syn. by Creighton, 1950. Harvard Univ., Mus. Compar. Zool. Bul. 104: 323).

Biology: Weber, 1956. Ecology 37: 150-161, figs. 1-4.

septentrionalis var. *vertebrata* (W. M. Wheeler). Syn. of *septentrionalis septentrionalis* (McCook).

**smithi neomexicanus* Cole. N. Mex. (5 miles north of Las Cruces).

Trachymyrmex smithi neomexicanus Cole, 1952. Tenn. Acad. Sci. Jour. 27: 159-162, fig. 1, a-c. ♂.

Taxonomy: Cole, 1953. Tenn. Acad. Sci. Jour. 28: 300-301. ♀ ♂.

Unrecognized Forms of Genus *Trachymyrmex* Forel, p. 831

Delete from Catalog. Transf. *Oecodoma tardigrada* Buckley to Unrecognized Forms of Myrmicinae, p. 833.

ACROMYRMEX subgenus MOELLERIUS Forel, p. 832

Taxonomy: Weber, 1945. Rev. de Ent. (Rio de Janeiro) 16: 61-62, figs. 1, 2.—G. C. Wheeler, 1948. Amer. Midland Nat. 40: 674-676, pl. 3, figs. 1-9 (larvae of *Acromyrmex*).

Genus ATTA Fabricius, pp. 832-833

Taxonomy: G. C. Wheeler, 1948. Amer. Midland Nat. 40: 676-683, pl. 3, figs. 10-16 (larvae).—Borgmeier, 1950. Inst. Oswaldo Cruz, Mem. 48: 239-263, 64 illustrations.

mexicana (F. Smith). Central America.

Taxonomy: Borgmeier, 1950. Inst. Oswaldo Cruz, Mem. 48: 260-261, figs. 53, 55, 59, 62 (male).

texana (Buckley).

Taxonomy: Borgmeier, 1950. Inst. Oswaldo Cruz, Mem. 48: 260-261, figs. 54, 57, 60, 61 (male).

Unrecognized Forms of Myrmicinae, p. 833

Myrmica (*Monomarium* (!)) *aquia* Buckley. Transf. from *Aphaenogaster* (*Attomyrma*), p. 796.

Tetramorium (*Cephalomorium*) *bahai* Forel. Transf. to *Pheidole* (*Pheidole*), p. 800.

Crematogaster (*Acrocoelia*) *sanguinea coachellai* J. Enzmann. Transf. from Unrecognized Forms of Subgenus *Crematogaster*, p. 810.

Myrmica dimidiata Say. Transf. from Unrecognized Forms of *Myrmica* (*Myrmica*), p. 791.

Solenopsis madara Roger. Transf. from Unrecognized Forms of Subgenus *Diplorhoptrum*, p. 814.

- Myrmica novaeboracensis* Buckley. Transf. from Unrecognized Forms of Subgenus *Crematogaster*, p. 810.
- Myrmica opposita* Say. Transf. from Unrecognized Forms of *Aphaenogaster* Subgenus *Attomyrma*, p. 798.
- Atta pennsylvanica* Buckley. Transf. from Unrecognized Forms of Genus *Pheidole*, p. 806.
- Atta picea* Buckley. Transf. from Unrecognized Forms of Genus *Pheidole*, p. 806.
- Tetramorium silvestrii* Santschi. Transf. to *Leptothorax* (*Myrafant*), p. 819.
- Oecodoma tardigrada* Buckley. Transf. from Unrecognized Forms of *Trachymyrmex*, p. 831.
- **Pheidole pubiventris* r. *timmi* Forel, 1901. Mitt. Naturh. Mus. Hamburg 18: 62. ♀ 2♂. ("Probably of Mexican origin—Dr. R. Timm.")

Subfamily DOLICHODERINAE

DOLICHODERUS subgenus HYPOCLINEA Mayr, pp. 833-835

Taxonomy: W. L. Brown, 1950. Wasmann Jour. Biology 8: 249—G. C. and J. Wheeler, 1951. Wash. Ent. Soc. Proc. 53: 172 (larvae).

mariae Forel.

Dolichoderus (*Hypoclinea*) *mariae davis* W. M. Wheeler (syn. by Creighton, 1950. Harvard Univ., Mus. Compar. Zool. Bul. 104: 334).

Dolichoderus (*Hypoclinea*) *mariae* var. *blatchleyi* W. M. Wheeler (syn. by Creighton, loc. cit. supra).

mariae davis W. M. Wheeler. Syn. of *mariae* Forel.

mariae var. *blatchleyi* W. M. Wheeler. Syn. of *mariae* Forel.

plagiatus (Mayr). N. Dak.

Dolichoderus (*Hypoclinea*) *plagiatus* var. *inornatus* W. M. Wheeler (syn. by Creighton, 1950. Harvard Univ., Mus. Compar. Zool. Bul. 104: 335).

plagiatus pustulatus var. *beutenmuelleri* W. M. Wheeler. Syn. of *pustulatus* Mayr.

plagiatus var. *inornatus* W. M. Wheeler. Syn. of *plagiatus* (Mayr).

pustulatus Mayr.

Dolichoderus (*Hypoclinea*) *plagiatus pustulatus* var. *beutenmuelleri* W. M. Wheeler (syn. by Creighton, 1950. Harvard Univ., Mus. Compar. Zool. Bul. 104: 335).

taschenbergi (Mayr).

Dolichoderus (*Hypoclinea*) *taschenbergi* var. *aterrimus* W. M. Wheeler (syn. by Creighton, 1950. Harvard Univ., Mus. Compar. Zool. Bul. 104: 336).

taschenbergi var. *aterrimus* W. M. Wheeler. Syn. of *taschenbergi* (Mayr).

Genus LIOMETOPUM Mayr, p. 835

Taxonomy: G. C. and J. Wheeler, 1951. Wash. Ent. Soc. Proc. 53: 172, 181 (larvae).

apiculatum Mayr, changed status.

Liometopum apiculatum apiculatum Mayr. Raised to sp. rank (*teste* Creighton, 1950. Harvard Univ., Mus. Compar. Zool. Bul. 104: 339).

Taxonomy: G. C. and J. Wheeler, 1951. Wash. Ent. Soc. Proc. 53: 181, pl. 1, figs. 23-24 (larva).

apiculatum luctuosum W. M. Wheeler. A subsp. of *occidentale* Emery.

occidentale Emery. Reduced to subsp. rank.

occidentale luctuosum W. M. Wheeler, changed status. Wyo.

Liometopum apiculatum luctuosum W. M. Wheeler. A subsp. of **occidentale** not of **apiculatum** (*teste* Creighton, 1950. Harvard Univ., Mus. Compar. Zool. Bul. 104: 339).

occidentale occidentale Emery, changed status.

Liometopum occidentale Emery. Reduced to subsp. rank (*teste* Creighton, 1950. Harvard Univ., Mus. Compar. Zool. Bul. 104: 339).

Unrecognized Species of *Liometopum* Mayr, p. 835

Delete from Catalog. Transf. *Formica masonia* Buckley to Unrecognized Forms of Dolichoderinae, p. 838.

Genus IRIDOMYRMEX Mayr, pp. 835-836

Biology: G. C. and J. Wheeler, 1951. Wash. Ent. Soc. Proc. 53: 172, 184.

analis (E. André). A subsp. of **pruinus** (Roger).

humilis (Mayr).

Biology: Gallardo, 1915. Buenos Aires Mus. Nac. de Hist., Nat. An. 27: 23-25.—Mallis, 1942. Sci. Monthly 55: 536-545.

Taxonomy: G. C. and J. Wheeler, 1951. Wash. Ent. Soc. Proc. 53: 186 (larva).

iniquus nigellus Emery, changed status.

Iridomyrmex iniquus var. **nigellus** Emery. Raised to subsp. rank (*teste* Creighton, 1950. Harvard Univ., Mus. Compar. Zool. Bul. 104: 342).

iniquus var. **nigellus** Emery. Raised to subsp. rank.

pruinus (Roger). Reduced to subsp. rank.

pruinus analis (E. André), changed status.

Iridomyrmex analis (E. André). Reduced to subsp. rank (*teste* Creighton, 1950. Harvard Univ., Mus. Compar. Zool. Bul. 104: 343).

Iridomyrmex pruinus var. **testaceus** Cole, (syn. by Creighton, *loc. cit. supra*).

pruinus pruinus (Roger), changed status.

Iridomyrmex pruinus (Roger). Reduced to subsp. rank (*teste* Creighton, 1950. Harvard Univ., Mus. Compar. Zool. Bul. 104: 342).

Biology: W. M. Wheeler, 1911. Harvard Univ., Mus. Compar. Zool. Bul. 54: 497.

Taxonomy: Santschi, 1930. Soc. Roy. Ent. d'Égypte Bul. 23: 81, figs. 2-3.—G. C. and J. Wheeler, 1951. Wash. Ent. Soc. Proc. 53: 185, pl. 3, figs. 1-6 (larva).

pruinus var. **testaceus** Cole. A syn. of **pruinus analis** (E. André).

DORYMYRMEX subgenus CONOMYRMA Forel, p. 837

**Conomyrma* subg. *Biconomyrma* Kusnezov, 1952. Acta Zool. Lilloana (Tucuman) 10: 429-430. Invalid. No genotype designated.

Taxonomy: Santschi, 1922. Soc. Vaud. des Sci. Nat. Bul. 54: 365.—Kusnezov, 1952. Acta Zool. Lilloana 10: 427, 429, 438-448, fig. 1, nos. 9-12.

pyramicus bicolor W. M. Wheeler, changed status.

Dorymyrmex (Conomyrma) pyramicus var. **bicolor** W. M. Wheeler. Raised to subsp. rank (*teste* Creighton, 1950. Harvard Univ., Mus. Compar. Zool. Bul. 104: 349).

pyramicus flavopectus M. R. Smith. Ala., Ga., Miss.

pyramicus pyramicus (Roger). Oreg.

Dorymyrmex (Conomyrma) pyramicus var. **flavus** McCook (syn. by Creighton, 1950. Harvard Univ., Mus. Compar. Zool. Bul. 104: 348).

Dorymyrmex (Conomyrma) pyramicus var. *niger* Pergande (syn. by Creighton, *op. cit. supra*, p. 349).

Dorymyrmex (Conomyrma) pyramicus var. *smithi* Cole (syn. by Creighton, *loc. cit. supra*).

Taxonomy: G. C. and J. Wheeler, 1951. Wash. Ent. Soc. Proc. 53: 183, pl. 2, figs. 11-18 (larva).

pyramicus var. *bicolor* W. M. Wheeler. Raised to subsp. rank.

pyramicus var. *flavus* McCook. A Syn. of *pyramicus pyramicus* (Roger).

pyramicus var. *niger* Pergande. Syn. of *pyramicus pyramicus* (Roger).

pyramicus var. *smithi* Cole. Syn. of *pyramicus pyramicus* (Roger).

**wheeleri* (Kusnezov). Ariz. (Tucson).

Conomyrma (? *Biconomyrma*) *wheeleri* Kusnezov, 1952. Acta Zool. Lilloana (Tucuman) 10: 438. ♀.

Genus TAPINOMA Foerster, pp. 837-838

Taxonomy: G. C. and J. Wheeler, 1951. Wash. Ent. Soc. Proc. 53: 172, 195 (larvae).

Delete "Preocc." and "N. syn." after original citation of *Micromyrma* Dufour; *Tapinoma Dufourii* Donisthorpe was unnecessarily proposed as a replacement name for *Micromyrma pygmaea* Dufour.

melanocephalum (Fabricius). Ont.

Taxonomy: G. C. and J. Wheeler, 1951. Wash. Ent. Soc. Proc. 53: 197 (larva).

sessile (Say).

Biology: Weber, 1941. Canad. Ent. 73: 140-141.

Taxonomy: G. C. and J. Wheeler, 1951. Wash. Ent. Soc. Proc. 53: 196, pl. 4, figs. 8-12 (larva).

Unrecognized Form of Tapinoma Foerster, p. 838

Delete from Catalog. Transf. *Bothriomyrmex dimmocki* W. M. Wheeler to Unrecognized Forms of Dolichoderinae, p. 838.

Unrecognized Forms of Dolichoderinae, p. 838

Bothriomyrmex dimmocki W. M. Wheeler. Transf. from Unrecognized Form of *Tapinoma*, p. 838.

Formica masonia Buckley. Transf. from Unrecognized Species of *Liometopum*, p. 835.

Subfamily FORMICINAE

Taxonomy: W. M. Wheeler, 1920. Psyche 27: 51.—G. C. and J. Wheeler, 1953. Ent. Soc. Amer. Pt. 1, 46: 126-171, pl. 1, figs. 1-23; pl. 2, figs. 1-27; pl. 3, figs. 1-28; pl. 4, figs. 1-22 (larvae).—G. C. and J. Wheeler, *op. cit.*, 46: 175-217, pl. 5, figs. 1-20; pl. 6, figs. 1-28; also text figs. 1-2 (larvae).

BRACHYMYRMEX subgenus BRACHYMYRMEX Mayr, pp. 838-839

Taxonomy: G. C. and J. Wheeler, 1953. Ent. Soc. Amer. Ann. 47: 129, 139 (larvae).

depilis Emery. Calif., Idaho, N. Dak., N. Mex.

Brachymyrmex (Brachymyrmex) nanellus W. M. Wheeler (syn. by Creighton, 1950. Harvard Univ., Mus. Compar. Zool. Bul. 104: 359).

**Brachymyrmex depilis flavescens* Grundmann, 1952. Kans. Ent. Soc. Jour. 25: 117. ♀. (Syn. by Cole, 1953. Ent. News. 64: 266).

Biology: Cole, 1940. Amer. Midland Nat. 24: 65-66.—Headley, 1952. Ent. Soc. Amer. Ann. 45: 436, 439.

Taxonomy: G. C. and J. Wheeler, 1953. Ent. Soc. Amer. Ann. 47: 139, pl. 2, figs. 10-15 (larva).

**depilis flavescens* Grundmann. Syn. of *depilis* Emrey.

nanellus W. M. Wheeler. Syn. of *depilis* Emery.

CAMPONOTUS subgenus CAMPONOTUS Mayr, pp. 839-842

Taxonomy: W. M. Wheeler, 1921. Psyche 28: 17.—International Comn. Zool. Nomencl. 1950. Bul. Zool. Nomencl. 4: 408.—G. C. and J. Wheeler, 1953. Ent. Soc. Amer. Ann. 46: 181, pl. 5, figs. 1-20, text fig. 1 (larvae).

acutirostris W. M. Wheeler. Transf. to *Camponotus* subg. *Tanaemyrmex* Ashmead, p. 843.

acutirostris var. *clarigaster* W. M. Wheeler. Transf. to *Camponotus* subg. *Tanaemyrmex* Ashmead, p. 843, and syn. under *acutirostris*.

americanus Mayr, changed status. Mich.

Camponotus (Camponotus) castaneus americanus Mayr. Raised to sp. rank (*teste* Creighton, 1950. Harvard Univ., Mus. Compar. Zool. Bul. 104: 365).

Camponotus (Camponotus) castaneus rufinasis Santschi (syn. by Creighton, *loc. cit. supra*).

Taxonomy: G. C. and J. Wheeler, 1953. Ent. Soc. Amer. Ann. 46: 185, text fig. 1 (larva).

castaneus americanus Mayr. Raised to sp. rank.

castaneus castaneus (Latreille). Transf. to *Camponotus* subg. *Tanaemyrmex* Ashmead, p. 843.

castaneus rufinasis Santschi. Syn. of *americanus* Mayr.

ferrugineus (Fabricius), changed status. Conn., Mass., Mich.

Camponotus (Camponotus) herculeanus pennsylvanicus var. *ferrugineus* (Fabricius). Raised to sp. rank (*teste*, W. L. Brown, 1950. Ent. News 61: 158-159).

Taxonomy: G. C. and J. Wheeler, 1953. Ent. Soc. Amer. Ann. 46: 188 (larva).

**herculeanus herculeanus* (Linnaeus). N. H.

Camponotus (Camponotus) herculeanus var. *whymperi* Forel (syn. by Creighton, 1950. Harvard Univ., Mus. Compar. Zool. Bul. 104: 367).

Ecology: W. L. Brown, 1949. Ent. News 60: 99.—Weber, 1950. Amer. Ent. Soc. Trans. 76: 188.—W. L. Brown, 1955. Ent. News 66: 47-48.

Taxonomy: G. C. and J. Wheeler, 1953. Ent. Soc. Amer. Ann. 46: 185-187 (larva).

herculeanus ligniperdus var. *noveboracensis* (Fitch). Raised to sp. rank.

herculeanus modoc W. M. Wheeler, changed status.

Camponotus (Camponotus) herculeanus var. *modoc* W. M. Wheeler. Raised to subsp. rank (*teste* W. L. Brown, 1950. Ent. News 61: 158).

herculeanus pennsylvanicus (DeGeer). Raised to sp. rank.

herculeanus pennsylvanicus var. *ferrugineus* (Fabricius). Raised to sp. rank.

herculeanus var. *modoc* W. M. Wheeler. Raised to subsp. rank.

herculeanus var. *whymperi* Forel. Syn. of *herculeanus herculeanus* (Linnaeus).

noveboracensis (Fitch), changed status.

Camponotus (Camponotus) herculeanus ligniperdus var. *noveboracensis* (Fitch). Raised to sp. rank (*teste* Creighton, 1950. Harvard Univ., Mus. Compar. Zool. Bul. 104: 369).

Taxonomy: G. C. and J. Wheeler, 1953. Ent. Soc. Amer. Ann. 46: 182-185, pl. 5, figs. 1-13 (larva).

- ocreatus ocreatus* Emery. Transf. to *Camponotus* subg. *Tanaemyrmex* Ashmead, p. 843.
- ocreatus primipilaris* W. M. Wheeler. Transf. to *Camponotus* subg. *Tanaemyrmex* Ashmead, p. 843, as a syn. of *ocreatus ocreatus* Emery.
- pennsylvanicus* (DeGeer), changed status.
- Camponotus (Camponotus) herculeanus pennsylvanicus* (DeGeer). Raised to sp. rank (*teste* Creighton, 1950. Harvard Univ. Mus. Compar. Zool. Bul. 104: 367).
- Morphology: Forbes, 1952. N. Y. Ent. Soc. Jour. 60: 157-171, pl. 15, figs. 1-6; pl. 16, figs. 7-10; pl. 17, figs. 11-18 (male genitalia).—Forbes, 1954. Jour. Morph. 95: 523-548, pl. 1, figs. 1-4; pl. 2, figs. 5-6; pl. 3, figs. 7-14; pl. 4, figs. 15-19 (male reproductive system).—Forbes, 1956. Insectes Sociaux 3: 505-511, figs. 1-6 (male digestive tract).
- Taxonomy: G. C. and J. Wheeler, 1953. Ent. Soc. Amer. Ann. 46: 187-188 (larva).
- **quercicola* M. R. Smith. Calif. (Tanbark Flat, Los Angeles Co.).
- Camponotus (Camponotus) quercicola* M. R. Smith, 1953. N. Y. Ent. Soc. Jour. 61: 211-214. ♀ 2f.
- sansabeanus bulimosus* W. M. Wheeler. Transf. to *Camponotus* subg. *Tanaemyrmex* Ashmead, p. 843.
- sansabeanus maccooki* Forel. Transf. to *Camponotus* subg. *Tanaemyrmex* Ashmead, p. 843.
- sansabeanus sansabeanus* (Buckley). Transf. to *Camponotus* subg. *Tanaemyrmex* Ashmead, p. 843.
- sansabeanus sansabeanus* var. *torrefactus* W. M. Wheeler. Transf. to *Camponotus* subg. *Tanaemyrmex* Ashmead, p. 843.
- sansabeanus vicinus* Mayr. Transf. to *Camponotus* subg. *Tanaemyrmex* Ashmead, p. 843.
- schaefferi* W. M. Wheeler. Transf. from *Camponotus* subg. *Myrmentoma* Forel, p. 845 (*teste* Creighton, 1950. Harvard Univ., Mus. Compar. Zool. Bul. 104: 371).
- texanus* W. M. Wheeler. Transf. from *Camponotus* subg. *Myrmentoma* Forel, p. 845 (*teste* Creighton, 1950, *loc. cit. supra*).

Unrecognized Forms of Subgenus *Camponotus* Mayr, p. 842

Delete from Catalog. Transf. *Camponotus herculeanus herculeanus* *herculeano-pennsylvanicus* Forel, *Camponotus herculeanus ligniperdus* var. *rubens* Wheeler and *Formica semi-punctata* Kirby to Unrecognized Forms of Subfamily Formicinae, p. 875.

CAMPONOTUS subgenus TANAEMYRMEX Ashmead, p. 843

- Taxonomy: G. C. and J. Wheeler, 1953. Ent. Soc. Amer. Ann. 46: 196 (larvae).
- acutirostris* W. M. Wheeler. Transf. from *Camponotus* subg. *Camponotus* Mayr, p. 839 (*teste* Creighton, 1950. Harvard Univ., Mus. Compar. Zool. Bul. 104: 375).
- Camponotus (Camponotus) acutirostris* var. *clarigaster* W. M. Wheeler (syn. by Creighton, *loc. cit. supra*).
- acutirostris* var. *clarigaster* W. M. Wheeler. Syn. of *acutirostris* W. M. Wheeler.
- castaneus* (Latreille), changed status. Transf. from *Camponotus* subg. *Camponotus* Mayr, p. 839.
- Camponotus (Camponotus) castaneus castaneus* (Latreille). Raised to sp. rank (*teste* Creighton, 1950. Harvard Univ., Mus. Compar. Zool. Bul. 104: 375).

fumidus festinatus (Buckley), changed status.

Camponotus (Tanaemyrmex) fumidus var. *festinatus* (Buckley). Raised to subsp. rank (*teste* Creighton, 1950. Harvard Univ., Mus. Compar. Zool. Bul. 104: 376).

Camponotus (Tanaemyrmex) fumidus var. *spurcus* W. M. Wheeler (syn. by Creighton, *loc. cit. supra*).

fumidus var. *spurcus* W. M. Wheeler. Syn. of *fumidus festinatus* (Buckley).

maccooki Forel, changed status. Transf. from *Camponotus* subg. *Camponotus* Mayr, p. 841.

Camponotus (Camponotus) sansabeanus maccooki Forel. Raised to sp. rank (*teste* Creighton, 1950. Harvard Univ., Mus. Compar. Zool. Bul. 104: 377).

Camponotus (Camponotus) sansabeanus vicinus var. *semitestaceus* Emery (syn. by Creighton, *loc. cit. supra*).

Camponotus (Camponotus) sansabeanus dumetorum W. M. Wheeler (syn. by Creighton, *loc. cit. supra*).

ocreatus Emery, changed status. Ariz., N. Mex. Transf. from *Camponotus* subg. *Camponotus* Mayr, p. 841.

Camponotus (Camponotus) ocreatus ocreatus Emery. Raised to sp. rank (*teste* Creighton, 1950. Harvard Univ., Mus. Compar. Zool. Bul. 104: 378).

Camponotus (Camponotus) ocreatus primipilaris W. M. Wheeler (syn. by Creighton, *loc. cit. supra*).

Biology: Cole, 1954. Tenn. Acad. Sci. Jour. 29: 272.

ocreatus primipilaris W. M. Wheeler. Syn. of *ocreatus* Emery.

sansabeanus bulimosus W. M. Wheeler. N. Mex. Transf. from *Camponotus* subg. *Camponotus* Mayr, p. 841 (*teste* Creighton, 1950. Harvard Univ., Mus. Compar. Zool. Bul. 104: 379).

sansabeanus dumetorum W. M. Wheeler. Syn. of *maccooki* Forel.

sansabeanus maccooki Forel. Raised to sp. rank.

sansabeanus sansabeanus (Buckley). Transf. from *Camponotus* subg. *Camponotus* Mayr, p. 841 (*teste* Creighton, 1950. Harvard Univ., Mus. Compar. Zool. Bul. 104: 378).

Taxonomy: G. C. and J. Wheeler, 1953. Ent. Soc. Amer. Ann. 46: 196 (larva).

sansabeanus sansabeanus var. *torrefactus* W. M. Wheeler. A subsp. of *sansabeanus* (Buckley).

sansabeanus torrefactus W. M. Wheeler, changed status. Transf. from *Camponotus* subg. *Camponotus* Mayr, p. 841.

Camponotus (Camponotus) sansabeanus sansabeanus var. *torrefactus* W. M. Wheeler. Raised to subsp. rank (*teste* Creighton, 1950. Harvard Univ., Mus. Compar. Zool. Bul. 104: 379).

sansabeanus vicinus Mayr. Raised to sp. rank.

sansabeanus vicinus var. *infernalis* W. M. Wheeler. Syn. of *vicinus* Mayr.

sansabeanus vicinus var. *luteangulus* W. M. Wheeler. Syn. of *vicinus* Mayr.

sansabeanus vicinus var. *maritimus* W. M. Wheeler. Syn. of *vicinus* Mayr.

sansabeanus vicinus var. *nitidiventris* Emery. Syn. of *vicinus* Mayr.

sansabeanus vicinus var. *plorabilis* W. M. Wheeler. Syn. of *vicinus* Mayr.

sansabeanus vicinus var. *semitestaceus* Emery. Syn. of *maccooki* Forel.

socius Roger.

Camponotus (Tanaemyrmex) socius var. *osceola* W. M. Wheeler (syn. by Creighton, 1950. Harvard Univ., Mus. Comp. Zool. Bul. 104: 379).

socius var. *osceola* W. M. Wheeler. Syn. of *socius* Roger.

vicinus Mayr, changed status. Transf. from *Camponotus* subg. *Camponotus* Mayr, p. 841.

Camponotus (Camponotus) sansabeanus vicinus Mayr. Raised to sp. rank (*teste* Creighton, 1950. Harvard Univ., Mus. Compar. Zool. Bul. 104: 381).

Camponotus (Camponotus) sansabeanus vicinus var. *nitidiventris* Emery (syn. by Creighton, *loc. cit. supra*).

Camponotus (Camponotus) sansabeanus vicinus var. *infernalis* W. M. Wheeler (syn. by Creighton, *loc. cit. supra*).

Camponotus (Camponotus) sansabeanus vicinus var. *luteangulus* W. M. Wheeler (syn. by Creighton, *loc. cit. supra*).

Camponotus (Camponotus) sansabeanus vicinus var. *maritimus* W. M. Wheeler (syn. by Creighton, *loc. cit. supra*).

Camponotus (Camponotus) sansabeanus vicinus var. *plorabilis* W. M. Wheeler (syn. by Creighton, *loc. cit. supra*).

CAMPONOTUS subgenus MYRMOTHRIX Forel, pp. 843-844

Taxonomy: G. C. and J. Wheeler, 1953. Ent. Soc. Amer. Ann. 46: 196 (larvae).

abdominalis floridanus (Buckley). Ala.

CAMPONOTUS subgenus MYRMENTOMA Forel, pp. 844-846

Taxonomy: G. C. and J. Wheeler, 1953. Ent. Soc. Amer. Ann. 46: 193, pl. 5, figs. 15-16 (larvae).

caryae caryae (Fitch). Mich.

nearcticus Emery. Colo., N. Dak., Utah.

Taxonomy: G. C. and J. Wheeler, 1953. Ent. Soc. Amer. Ann. 46: 193, pl. 5, figs. 15-16 (larva).

rasilis W. M. Wheeler. Colo., Utah.

schaefferi W. M. Wheeler. Transf. to *Camponotus* subg. *Camponotus* Mayr, p. 841.

subbarbatus Emery. Mich., N. C., N. Dak.

texanus W. M. Wheeler. Transf. to *Camponotus* subg. *Camponotus* Mayr, p. 841.

Unrecognized Forms of Subgenus Myrmentoma Forel, p. 846

Delete from Catalog. Transf. *Formica atra* Buckley and *Formica septentrionale* Buckley to Unrecognized Forms of Subfamily Formicinae, p. 875.

CAMPONOTUS subgenus COLOBOPSIS Mayr, p. 846

Taxonomy: G. C. and J. Wheeler, 1953. Ent. Soc. Amer. Ann. 46: 188, fig. 2 (larvae).

cerberulus Emery.

Taxonomy: Creighton, 1952. Psyche 59: 148-153.

hunteri W. M. Wheeler, changed status.

Camponotus (Colobopsis) pylartes var. *hunteri* W. M. Wheeler. Raised to sp. rank (*teste* Creighton, 1950. Harvard Univ., Mus. Compar. Zool. Bul. 104: 393).

impressus Roger.

Taxonomy: M. R. Smith, 1955. Brooklyn Ent. Soc. Bul. 50: 98. ♀.

mississippiensis M. R. Smith. Fla.

Taxonomy: G. C. and J. Wheeler, 1953. Ent. Soc. Amer. Ann. 46: 188-190, fig. 2, a-g (larva).

**papago* Creighton. Ariz. (Baboquivari Mts.)

Camponotus (Colobopsis) papago Creighton, 1952. Psyche 59: 153-162, pl. 13, figs. 1-3, text. figs. 1, 2. ♀ 2 ♀ ♂.

pylartes var. *hunteri* W. M. Wheeler. Raised to sp. rank.

CAMPONOTUS subgenus MANNIELLA W. M. Wheeler, p. 847

Delete from Catalog. No representatives in the United States.

ulcerosus W. M. Wheeler. Transf. to *Camponotus* subg. *Myrmaphaenus* Emery, p. 847.

CAMPONOTUS subgenus MYRMAPHAENUS Emery, p. 847

bruesi W. M. Wheeler. Syn. of *ulcerosus* W. M. Wheeler.

ulcerosus W. M. Wheeler. Transf. from *Camponotus* subg. *Manniella*, p. 847.
Camponotus (Myrmaphaenus) bruesi W. M. Wheeler (syn. by Creighton, 1951. *Psyche* 58: 47).

Biology and Taxonomy: Creighton, 1951. *Psyche* 58: 47-64, pl. 5, figs. 1-5, text figs. 1-3.

Biology: Creighton, 1953. *Psyche* 60: 82-84.

CAMPONOTUS subgenus MYRMOBRACHYS Forel, p. 847

Taxonomy: G. C. and J. Wheeler, 1953. *Ent. Soc. Amer. Ann.* 46: 194-195 (larvae).

**planatus* Roger. Cuba, So. Fla., Brownsville area of Tex. and north. Mexico.

Camponotus planatus Roger, 1863. *Berlin. Ent. Ztschr.* 7: 148. ♀ ♀ ♂.

Taxonomy: G. C. and J. Wheeler, 1953. *Ent. Soc. Amer. Ann.* 46: 194 (larva).

planatus var. *continentis* Forel. Delete from Catalog and transf. refs. on Biology and Taxonomy to *planatus* Roger.

Unrecognized Form of Camponotus Mayr, p. 847

Delete from Catalog. Transf. *Formica lauta* Say to Unrecognized Forms of Subfamily Formicinae, p. 875.

PARATRECHINA subgenus PARATRECHINA Motschoulsky, pp. 847-848

Taxonomy: G. C. and J. Wheeler, 1953. *Ent. Soc. Amer. Ann.* 46: 143 (larvae).

PARATRECHINA subgenus NYLANDERIA Emery, pp. 848-849

arenivaga (W. M. Wheeler). Subsp. of *melanderi* W. M. Wheeler.

arenivaga var. *faisonensis* (Forel). Syn. of *melanderi arenivaga* (Forel).

bruesii (W. M. Wheeler). ? Ariz., Fla.

**fulva* (Mayr). South. Texas to Argentina. In greenhouses farther north in the U. S., especially in States along the Atlantic Seaboard.

Prenolepis fulva Mayr, 1862. *Zool. Bot. Gesell. Wien, Verh.* 12: 698. ♀ ♀.

Taxonomy: Creighton, 1950. *Harvard Univ., Mus. Compar. Zool. Bul.* 104: 406-407.

fulva pubens (Forel). Delete from Catalog and replace with *fulva* (Mayr).

melanderi arenivaga (W. M. Wheeler), changed status. Fla.

Paratrechina (Nylanderia) arenivaga W. M. Wheeler. Reduced to subsp. rank (*teste* Creighton, 1950. *Harvard Univ., Mus. Compar. Zool. Bul.* 104: 408-409).

Paratrechina (Nylanderia) arenivaga var. *faisonensis* (Forel) (syn. by Creighton, *loc. cit. supra*).

melanderi melanderi (W. M. Wheeler), changed status. Ariz.

Paratrechina (Nylanderia) vividula melanderi (W. M. Wheeler). Incorrectly placed under *vividula* (*teste* Creighton 1950. *Harvard Univ., Mus. Compar. Zool. Bul.* 104: 407).

Taxonomy: G. C. and J. Wheeler, 1953. *Ent. Soc. Amer. Ann.* 46: 144, pl. 2, figs. 16-20 (larva).

parvula (Mayr). Mass., Mich.

Paratrechina (*Nylanderia*) *parvula* var. *grandula* (Forel), (syn. by Creighton, 1950. Harvard Univ., Mus. Compar. Zool. Bul. 104: 409).

parvula var. *grandula* (Forel). Syn. of *parvula* (Mayr).

vividula melanderi (W. M. Wheeler). Subsp. of *melanderi* (W. M. Wheeler).

Genus PRENOLEPIS Mayr, pp. 849-850

Taxonomy: G. C. and J. Wheeler, 1953. Ent. Soc. Amer. Ann. 46: 142 (larvae).

imparis arizonica W. M. Wheeler, changed status.

Prenolepis imparis var. *arizonica* W. M. Wheeler. Raised to subsp. rank (*teste* Creighton, 1950. Harvard Univ., Mus. Compar. Zool. Bul. 104: 414).

imparis californica W. M. Wheeler, changed status.

Prenolepis imparis var. *californica* W. M. Wheeler. Raised to subsp. rank (*teste* Creighton, 1950. Harvard Univ., Mus. Compar. Zool. Bul. 104: 414).

imparis coloradensis W. M. Wheeler, changed status.

Prenolepis imparis var. *coloradensis* W. M. Wheeler. Raised to subsp. rank (*teste* Creighton, 1950. Harvard Univ., Mus. Compar. Zool. Bul. 104: 415).

imparis imparis (Say), changed status. Fla., N. Mex.

Prenolepis imparis (Say). Reduced to subsp. rank (*teste* Creighton, 1950. Harvard Univ., Mus. Compar. Zool. Bul. 104: 413).

Prenolepis imparis var. *minuta* Emery (syn. by Creighton, 1950, *op. cit.*, p. 414).

Prenolepis imparis var. *testacea* Emery (syn. by Creighton, *loc. cit. supra*).

Prenolepis imparis var. *pumila* W. M. Wheeler (syn. by Creighton, *loc. cit. supra*).

Taxonomy: G. C. and J. Wheeler, 1953. Ent. Soc. Amer. Ann. 46: 142-143, pl. 2, figs. 21-27 (larva).

imparis var. *arizonica* W. M. Wheeler. Raised to subsp. rank.

imparis var. *californica* W. M. Wheeler. Raised to subsp. rank.

imparis var. *coloradensis* W. M. Wheeler. Raised to subsp. rank.

imparis var. *minuta* Emery. Syn. of *imparis imparis* (Say).

imparis var. *pumila* W. M. Wheeler. Syn. of *imparis imparis* (Say).

imparis var. *testacea* Emery. Syn. of *imparis imparis* (Say).

LASIUS subgenus LASIUS Fabricius, pp. 850-851

Taxonomy: G. C. and J. Wheeler, 1953. Ent. Soc. Amer. Ann. 46: 147-150, pl. 3, figs. 1-8 (larvae).

Revision: Wilson, 1955. Hymenopt. Studien 1: 36-38. ♂ ♂. 11-13, 26-111, text figs. 1-10, pl. 1, figs. 1-9.

Delete Fabricius 1804 and replace with Fabricius [1804-1805].

**alienus* (Foerster). Eurasia and N. Amer. In N. Amer. from N. S. and south. B. C. to north. Fla. and the mts. of Durango, Mexico.

Formica aliena Foerster, 1850. Hymenopt. Studien 1: 36-38. ♂ ♂.

Lasius (*Lasius*) *niger alienus* var. *americanus* Emery (syn. by Wilson, 1955. Harvard Univ., Mus. Compar. Zool. Bul. 113: 77).

**Lasius niger alienus* var. *alieno-americanus* W. M. Wheeler, 1917. Amer. Acad. Arts and Sci. Proc. 52: 525-526. ♀. (Syn. by Wilson, *loc. cit. supra*.)

Taxonomy: G. C. and J. Wheeler, 1953. Ent. Soc. Amer. Ann. 46: 147-148, pl. 3, figs. 1-8 (larva).—Wilson, 1955. Harvard Univ., Mus. Compar. Zool. Bul. 113: 77-89, text. figs. 1, 6-8, pl. 1, fig. 5.

♀ ♀ ♂.

***crypticus** Wilson. Alta. and N. Dak. to N. Mex., west to Idaho, Oreg., Utah, and Calif. Abundant in Great Plains and common in Rocky Mts. and the Great Basin.

Lasius (*Lasius*) **crypticus** Wilson, 1955. Harvard Univ., Mus. Compar. Zool. Bul. 113: 104-108, text fig. 10. ♀ ♀ ♂.

neoniger Emery, changed status. Que. and Fla. west to Idaho and N. Mex. Uncommon in south. Rocky Mts. and unknown from Pacific Northwest.

Lasius (*Lasius*) **niger** var. **neoniger** Emery. Raised to sp. rank (*teste* Wilson, 1955. Harvard Univ., Mus. Compar. Zool. Bul. 113: 97).

Taxonomy: Wilson, 1955. Harvard Univ., Mus. Compar. Zool. Bul. 113: 97-104, text fig. 9, pl. 1, fig. 3. ♀ ♀ ♂.

***niger** (Linnaeus). Eurasia and N. Amer. In N. Amer. from Pacific Northwest through most of the Great Basin, the Rocky Mts., and north. Sierra Nevada.

Formica nigra Linnaeus, 1758. Syst. Nat. Ed. 10, 1: 580. ♀.

Taxonomy: G. C. and J. Wheeler, 1953. Ent. Soc. Amer. Ann. 46: 148-150 (larva).—Wilson, 1955. Harvard Univ., Mus. Compar. Zool. Bul. 113: 59-77, text figs. 6-8, pl. 1, figs. 6-7. ♀ ♀ ♂.

***niger alienus** var. **alieno-americanus** W. M. Wheeler. Syn. of **alienus** (Foerster).

niger alienus var. **americanus** Emery. Syn. of **alienus** (Foerster).

niger sitkaënsis Pergande. Raised to sp. rank.

niger var. **neoniger** Emery. Raised to sp. rank.

***sitiens** Wilson. Ariz., Colo., N. Mex.; Mexico (Durango).

Lasius (*Lasius*) **sitiens** Wilson, 1955. Harvard Univ., Mus. Compar. Zool. Bul. 113: 108-111, text fig. 10. ♀ ♀ ♂.

sitkaënsis Pergande, changed status. East. Que. to Mass., west to southeast. Alaska, Ariz., and Calif., and an isolated area in mts. of N. C., Va., W. Va.

Lasius (*Lasius*) **niger sitkaënsis** Pergande. Raised to sp. rank (*teste* Wilson, 1955. Harvard Univ., Mus. Compar. Zool. Bul. 113: 36).

Taxonomy: Wilson, 1955. Harvard Univ., Mus. Compar. Zool. Bul. 113: 36-47, text figs. 3, 4; pl. 1, figs. 1, 4. ♀ ♀ ♂.

***LASIUS** subgenus **CAUTOLASIUS** Wilson

(= *Lasius* subg. *Chthonolasius* Ruzsky, in part, p. 851)

Lasius subg. **Cautolasius** Wilson, 1955. Harvard Univ., Mus. Compar. Zool. Bul. 113: 13.

Type: **Formica flava** Fabricius. Orig. desig.

Taxonomy: G. C. and J. Wheeler, 1953. Ent. Soc. Amer. Ann. 46: 151-154, pl. 3, figs. 17-21 (larvae).—Wilson, 1955. Harvard Univ., Mus. Compar. Zool. Bul. 113: 13-14, 111-138, text figs. 11-14.

brevicornis brevicornis Emery. Syn. of **flavus** (Fabricius).

brevicornis microps W. M. Wheeler. Syn. of **flavus** (Fabricius).

***fallax** Wilson. Mont. and Wash. to Utah, Colo., and Ariz.

Lasius (*Cautolasius*) **fallax** Wilson, 1955. Harvard Univ., Mus. Compar. Zool. Bul. 113: 130-133. ♀ ♀ ♂.

***flavus** (Fabricius). Eurasia and N. Amer. In N. Amer. abundant through most of the eastern half, less abundant in south. Rocky Mts. and rare or absent in north. Rocky Mts. and Pacific Northwest.

Formica flava Fabricius, 1781. Species Insectorum 1: 491. ♀.

Lasius (*Chthonolasius*) **brevicornis brevicornis** Emery (syn. by Wilson, 1955. Harvard Univ., Mus. Compar. Zool. Bul. 113: 112).

Lasius (*Chthonolasius*) **brevicornis microps** W. M. Wheeler (syn. by Wilson, loc. cit. supra).

Lasius (Chthonolasius) flavus claripennis W. M. Wheeler (syn. under *microps* by Creighton, 1950. Harvard Univ., Mus. Compar. Zool. Bul. 104: 422).

**Lasius (Chthonolasius (!)) helveolus* (as *helvus* in fig. 326) Cook, 1950. Ants of Calif., Palo Alto, p. 327. ♀.

Taxonomy: G. C. and J. Wheeler, 1953. Ent. Soc. Amer. Ann. 46: 152-154 (larva).—Wilson, 1955. Harvard Univ., Mus. Compar. Zool. Bul. 113: 112-130, text figs. 11-14. ♀ ♀ ♂.

flavus claripennis W. M. Wheeler. Syn. of *flavus* (Fabricius).

flavus nearcticus W. M. Wheeler. Raised to sp. rank.

helveolus Cook. Syn. of *flavus* (Fabricius).

nearcticus W. M. Wheeler, changed status. Common throughout most of forested area from southeast. Canada to south. Appalachian Mts., occasional as far west as S. Dak and Wyo.

Lasius (Chthonolasius) flavus nearcticus W. M. Wheeler. Raised to sp. rank (*teste* Wilson, 1955. Harvard Univ., Mus. Compar. Zool. Bul. 113: 133).

Taxonomy: G. C. and J. Wheeler, 1953. Ent. Soc. Amer. Ann. 46: 151-152 (larva).—Wilson, 1955. Harvard Univ., Mus. Compar. Zool. Bul. 113: 133-136, text figs. 11-13. ♀ ♀ ♂.

LASIIUS subgenus CHTHONOLASIIUS Ruzsky, pp. 851-852

Taxonomy: G. C. and J. Wheeler, 1953. Ent. Soc. Amer. Ann. 46: 150-151, pl. 3, figs. 9-16 (larvae).—Wilson, 1955. Harvard Univ., Mus. Compar. Zool. Bul. 113: 13-14, 150-192, text figs. 15-17; pl. 2, figs. 1, 3-5.

Delete "Type: *Formica flava*" and all references pertaining to it. Replace with "Type: *Formica umbrata* Nylander. Desig. by Emery, 1925."

brevicornis brevicornis Emery. Transf. to subg. *Cautolasius* as a syn. of *flavus* (Fabricius), p. 850.

brevicornis microps W. M. Wheeler. Transf. to subg. *Cautolasius* as a syn. of *flavus* (Fabricius), p. 850.

flavus claripennis W. M. Wheeler. Transf. to subg. *Cautolasius* as a syn. of *flavus* (Fabricius), p. 850.

flavus nearcticus W. M. Wheeler. Transf. to subg. *Cautolasius*, p. 850. Raised to sp. rank.

humilis W. M. Wheeler. Colo., Nev., N. Mex.

Taxonomy and Ecology: Wilson, 1955. Harvard Univ., Mus. Compar. Zool. Bul. 113: 185-187. ♀ ♀.

minutus Emery, changed status. East. N. Amer. from N. S. to Va., west to Minn. and Iowa.

Lasius (Chthonolasius) umbratus minutus Emery. Raised to sp. rank (*teste* Wilson, 1955. Harvard Univ., Mus. Compar. Zool. Bul. 113: 180).

Taxonomy: Wilson, 1955. *Op. cit.*, pp. 180-182, pl. 2, fig. 4.

**nevadensis* Cole. Nev. (Kyle Canyon in Charleston Mts., near Las Vegas).

Lasius (Chthonolasius) nevadensis Cole, 1956. Tenn. Acad. Sci. Jour. 31: 26-27. ♀ ♀ ♂.

pilosus M. R. Smith. Syn. of *vestitus* W. M. Wheeler.

speculiventris Emery, changed status. Pa. and N. J. to Minn. and Kans.

Lasius (Chthonolasius) umbratus speculiventris Emery. Raised to sp. rank (*teste* Wilson, 1955. Harvard Univ., Mus. Compar. Zool. Bul. 113: 171).

Taxonomy: Wilson, 1955. *Op. cit.*, pp. 171-173. ♀ ♀ ♂.

subumbratus Viereck, changed status. N. S. and Maine to Sask. and all States west of Mont. to Ariz.

Lasius (Chthonolasius) umbratus subumbratus Viereck. Raised to sp. rank (*teste* Wilson, 1955. Harvard Univ., Mus. Compar. Zool. Bul. 113: 175).

Taxonomy: Wilson, 1955. *Op. cit.*, pp. 175-180, text fig. 17. ♀ ♀ ♂.

**umbratus* (Nylander). Eurasia and N. Amer. In east. N. Amer. from N. S. to Gulf States, rare in the latter, fairly common in the southern Rocky Mts. but sparse or absent over most of west. N. Amer. No records from north. Calif. to B. C. or north. Idaho.

Formica umbrata Nylander, 1846. Acta. Soc. Sci. Fenn. 2: 1048-1050. ♀ ♂.

Lasius (Chthonolasius) umbratus mixtus var. *aphidicola* (Walsh) (syn. by Wilson, 1955. Harvard Univ., Mus. Compar. Zool. Bul. 113: 150).

Lasius (Chthonolasius) umbratus epinotalis Buren (syn. by Wilson, 1955, *op. cit.*, p. 152).

Taxonomy: G. C. and J. Wheeler, 1953. Ent. Soc. Amer. Ann. 46: 150-151, pl. 3, figs. 9-16 (larva).—Wilson, 1955. Harvard Univ., Mus. Compar. Zool. Bul. 113: 150-167, text figs. 1, 15-17, pl. 1, fig. 1. ♀ ♀ ♂.

umbratus epinotalis Buren. Syn. of *umbratus* (Nylander).

umbratus minutus Emery. Raised to sp. rank.

umbratus mixtus var. *aphidicola* (Walsh). Syn. of *umbratus* (Nylander).

umbratus speculiventris Emery. Raised to sp. rank.

umbratus subumbratus Viereck. Raised to sp. rank.

umbratus vestitus W. M. Wheeler. Raised to sp. rank.

vestitus W. M. Wheeler, changed status. Idaho and Calif. to B. C.

Lasius (Chthonolasius) umbratus vestitus W. M. Wheeler. Raised to sp. rank (*teste* Wilson, 1955. Harvard Univ., Mus. Compar. Zool. Bul. 113: 173).

Lasius (Chthonolasius) pilosus M. R. Smith (syn. by Wilson, 1955, *loc. cit. supra*).

Taxonomy: Wilson, 1955. Harvard Univ., Mus. Compar. Zool. Bul. 113: 173-175. ♀ ♀.

Genus ACANTHOMYOPS Mayr

(= *Lasius* subg. *Acanthomyops* pp. 852-854 Mayr)

Taxonomy: G. C. and J. Wheeler, 1953. Ent. Soc. Amer. Ann. 46: 154-156, pl. 3, figs. 22-28 (larvae).

Place author names of all valid species and subspecies in parentheses.

claviger californicus (W. M. Wheeler), changed status.

Lasius (Acanthomyops) interjectus californicus W. M. Wheeler. A subspecies of *claviger*, not of *interjectus* (*teste* Creighton, 1950. Harvard Univ., Mus. Compar. Zool. Bul. 104: 430).

claviger claviger (Roger).

Taxonomy: G. C. and J. Wheeler, 1953. Ent. Soc. Amer. Ann. 46: 155-156, pl. 3, figs. 27-28 (larva).

claviger coloradensis (W. M. Wheeler), changed status.

Lasius (Acanthomyops) interjectus coloradensis W. M. Wheeler. A subsp. of *claviger*, not of *interjectus* (*teste* Creighton, 1950. Harvard Univ., Mus. Compar. Zool. Bul. 104: 429).

Taxonomy: Cole, 1954. Tenn. Acad. Sci. Jour. 29: 284.

claviger subglaber Emery. Raised to sp. rank.

clavigeroides Buren. Syn. of *subglaber* (Emery).

interjectus californicus (W. M. Wheeler). Subsp. of *claviger* (Roger).

interjectus coloradensis (W. M. Wheeler). A subsp. of *claviger* (Roger).

interjectus interjectus (Mayr).

Taxonomy: G. C. and J. Wheeler, 1953. Ent. Soc. Amer. Ann. 46: 156 (larva).

occidentalis (W. M. Wheeler). N. Dak.

plumopilosus (Buren). Mich.

subglaber (Emery), changed status. Tenn.

Lasius (*Acanthomyops*) **claviger subglaber** Emery. Raised to sp. rank (*teste* Creighton, 1950. Harvard Univ., Mus. Compar. Zool. Bul. 104: 433).

Lasius (*Acanthomyops*) **clavigeroides** Buren (syn. by Creighton, *loc. cit. supra*).

Taxonomy: G. C. and J. Wheeler, 1953. Ent. Soc. Amer. Ann. 46: 155, pl. 3, figs. 22-26 (larva).

Unrecognized Forms of *Lasius* Fabricius, p. 854

Delete from Catalog. Transf. ***Formica monticola*** Buckley and ***Formica saxicola*** Buckley to p. 875 under Unrecognized Forms of Subfamily Formicinae.

Genus MYRMECOCYSTUS Wesmael, pp. 854-857

comatus W. M. Wheeler, changed status. Ariz., N. Mex.

Myrmecocystus melliger mendax var. **comatus** W. M. Wheeler. Raised to sp. rank (*teste* Creighton, 1950. Harvard Univ., Mus. Compar. Zool. Bul. 104: 442).

Taxonomy: Cole, 1954. Tenn. Acad. Sci. Jour. 29: 284. ♀.

flaviceps W. M. Wheeler, changed status.

Myrmecocystus yuma var. **flaviceps** W. M. Wheeler. Raised to sp. rank (*teste* Creighton, 1950. Harvard Univ., Mus. Compar. Zool. Bul. 104: 443).

idahoensis Cole. Syn. of **mojave** W. M. Wheeler.

lugubris W. M. Wheeler. Lower Calif. (Mex.), Mexico.

Myrmecocystus yuma W. M. Wheeler (syn. by Creighton, 1956. Amer. Mus. Novitates No. 1807, p. 1).

melliger californicus Cole, changed status.

Myrmecocystus melliger mimicus var. **californicus**. A subsp. not a var. of **mimicus** (*teste* Creighton, 1950. Harvard Univ., Mus. Compar. Zool. Bul. 104: 445).

melliger lomaënsis W. M. Wheeler. Syn. of **mimicus** W. M. Wheeler.

melliger melliger Forel.

Myrmecocystus melliger orbiceps W. M. Wheeler (syn. by Creighton and Crandall, 1954. Biol. Rev., City College N. Y. 16: 2).

Biology: Creighton and Crandall, 1954. *Op. cit.*, pp. 2-6, figs. 1-4.

melliger mendax W. M. Wheeler. Raised to sp. rank.

melliger mendax var. **comatus** W. M. Wheeler. Raised to sp. rank.

melliger mimicus W. M. Wheeler. Raised to sp. rank.

melliger mimicus var. **californicus** Cole. Subsp. of **melliger** Forel.

melliger mimicus var. **depilis** Forel. The status of **depilis** is uncertain and it is questionable whether **depilis** occurs in the U. S. or not (*teste* Creighton, 1950. Harvard Univ., Mus. Compar. Zool. Bul. 104: 440).

melliger mimicus var. **jesuita** W. M. Wheeler. Syn. of **mimicus** W. M. Wheeler.

melliger orbiceps W. M. Wheeler. Syn. of **melliger melliger** Forel.

melliger semirufus Emery. Raised to sp. rank.

melliger semirufus var. **testaceus** Emery. Syn. of **semirufus** Emery.

mendax W. M. Wheeler, changed status. N. Mex.

Myrmecocystus melliger mendax W. M. Wheeler. Raised to sp. rank (*teste* Creighton, 1950. Harvard Univ., Mus. Compar. Zool. Bul. 104: 445).

Taxonomy: Cole, 1954. Tenn. Acad. Sci. Jour. 29: 284. ♀.

mexicanus hortideorum McCook, changed status.

Myrmecocystus mexicanus var. *horti-deorum* McCook. Raised to subsp. rank (*teste* Creighton, 1950. Harvard Univ., Mus. Compar. Zool. Bul. 104: 446).

mexicanus mexicanus Wesmael, changed status. N. Mex.

Myrmecocystus mexicanus Wesmael. Reduced to subsp. rank (*teste* Creighton, 1950. Harvard Univ., Mus. Compar. Zool. Bul. 104: 446).

mexicanus var. *horti-deorum* McCook. Raised to subsp. rank.

mimicus W. M. Wheeler, changed status.

Myrmecocystus melliger mimicus W. M. Wheeler. Raised to sp. rank (*teste* Creighton, 1950. Harvard Univ., Mus. Compar. Zool. Bul. 104: 446).

Myrmecocystus melliger mimicus var. *jesuita* W. M. Wheeler (syn. by Creighton *op. cit. supra*, p. 447).

Myrmecocystus melliger lomaënsis W. M. Wheeler (syn. by Creighton, 1950, *loc. cit. supra*).

mojave W. M. Wheeler. South. Calif. to south. Idaho.

Myrmecocystus idahoensis Cole (syn. by Creighton, 1950. Harvard Univ., Mus. Compar. Zool. Bul. 104: 448).

***pyramicus** M. R. Smith. Nev. (Nev. Dominion Mine, Pyramid Mining Dist., 5 miles west of Mullen Gap).

Myrmecocystus pyramicus M. R. Smith, 1951. Great Basin Nat. 11: 91-94, figs. 1-3. ♀.

semirufus Emery, changed status. Oreg.

Myrmecocystus melliger semirufus Emery. Raised to sp. rank (*teste* Creighton, 1950. Harvard Univ., Mus. Compar. Zool. Bul. 104: 449).

Myrmecocystus melliger semirufus var. *testaceus* Emery (syn. by Creighton, *loc. cit. supra*).

yuma W. M. Wheeler. ? Idaho. Syn. of *lugubris* W. M. Wheeler.

yuma var. *flaviceps* W. M. Wheeler. Raised to sp. rank.

FORMICA subgenus PROFORMICA Ruzsky, pp. 857-858

Taxonomy: G. C. and J. Wheeler, 1953. Ent. Soc. Amer. Ann. 46: 158-159, pl. 4, figs. 8-10 (larvae).—W. L. Brown and E. O. Wilson, 1955. Psyche 62: 108-129, pl. 2, figs. 1-8.

bradleyi W. M. Wheeler. Transf. from *Formica* subg. *Formica* Linnaeus (*sanguinea* group), p. 860 (*teste* W. L. Brown and E. O. Wilson, 1955. Psyche 62: 126).

Formica (Proformica) neogagates neogagates var. *morbida* W. M. Wheeler (syn. by W. L. Brown and E. O. Wilson, *loc. cit. supra*). Biology: Beamer and Michener, 1950. Kans. Ent. Soc. Jour. 23: 110-113, fig. 1.

Taxonomy: G. C. and J. Wheeler, 1953. Ent. Soc. Amer. Ann. 46: 168-169, pl. 4, figs. 11-14 (larva).

lasioides Emery, changed status. Ariz., Mich., N. Mex.

Formica (Proformica) neogagates lasioides Emery. Raised to sp. rank (*teste* Creighton, 1950. Harvard Univ., Mus. Compar. Zool. Bul. 104: 457).

Formica (Proformica) neogagates lasioides var. *vetula* W. M. Wheeler (syn. by Creighton, *op. cit. supra*, p. 458).

limata W. M. Wheeler, changed status. N. Mex.

Formica (Proformica) neogagates lasioides var. *limata* W. M. Wheeler raised to sp. rank (*teste* Creighton, 1950. Harvard Univ., Mus. Compar. Zool. Bul. 104: 458).

neogagates Emery, changed status. Ariz., N. Mex.

Formica (Proformica) neogagates neogagates Emery. Raised to sp. rank (*teste* Creighton, 1950. Harvard Univ., Mus. Compar. Zool. Bul. 104: 459).

Formica (Proformica) neogagates neogagates var. *vinculans* W. M. Wheeler (syn. by Creighton, *loc. cit. supra*).

Taxonomy: G. C. and J. Wheeler, 1953. Ent. Soc. Amer. Ann. 46: 158-159, pl. 4, figs. 8-10 (larva).

neogagates lasioides Emery. Raised to sp. rank.

neogagates lasioides var. *limata* W. M. Wheeler. Raised to sp. rank.

neogagates lasioides var. *vetula* W. M. Wheeler. Syn. of *lasioides* Emery.

neogagates neogagates Emery. Raised to sp. rank.

neogagates neogagates var. *morbida* W. M. Wheeler. Syn. of *bradleyi* W. M. Wheeler.

neogagates neogagates var. *vinculans* W. M. Wheeler. Syn. of *neogagates* Emery.

FORMICA subgenus NEOFORMICA W. M. Wheeler, pp. 858-860

Taxonomy: G. C. and J. Wheeler, 1953. Ent. Soc. Amer. Ann. 46: 159-160, pl. 4, figs. 15-17 (larvae).

archboldi M. R. Smith, changed status. Ala.

Formica (Neoformica) pallide-fulva archboldi M. R. Smith. Raised to sp. rank (*teste* Creighton, 1950. Harvard Univ., Mus. Compar. Zool. Bul. 104: 549).

pallide-fulva archboldi M. R. Smith. Raised to sp. rank.

pallide-fulva delicata Cole. Syn. of *pallide-fulva nitidiventris* Emery.

pallide-fulva nitidiventris Emery.

Formica (Neoformica) pallide-fulva nitidiventris var. *fuscata* Emery (syn. by Creighton, 1950. Harvard Univ., Mus. Compar. Zool. Bul. 104: 551).

Formica (Neoformica) pallide-fulva schaufussi var. *incerta* Emery (syn. by Creighton, *loc. cit. supra*).

Formica (Neoformica) pallide-fulva delicata Cole (syn. by Creighton, *loc. cit. supra*).

Taxonomy: G. C. and J. Wheeler, 1953. Ent. Soc. Amer. Ann. 46: 159-160, pl. 4, figs. 15-17 (larva).

pallide-fulva nitidiventris var. *fuscata* Emery. Syn. of *pallide-fulva nitidiventris* Emery.

pallide-fulva pallide-fulva Latreille.

Formica (Neoformica) pallide-fulva var. *succinea* W. M. Wheeler (syn. by Creighton, 1950. Harvard Univ., Mus. Compar. Zool. Bul. 104: 550).

pallide-fulva schaufussi Mayr. A subsp. of *schaufussi* Mayr.

pallide-fulva schaufussi var. *dolosa* W. M. Wheeler. A subsp. of *schaufussi* Mayr.

pallide-fulva schaufussi var. *incerta* Emery. Syn. of *pallide-fulva nitidiventris* Emery.

pallide-fulva var. *succinea* W. M. Wheeler. Syn. of *pallide-fulva pallide-fulva* Latreille.

schaufussi dolosa W. M. Wheeler, changed status.

Formica (Neoformica) pallide-fulva schaufussi var. *dolosa* W. M. Wheeler. Raised to subsp. rank (*teste* Creighton, 1950. Harvard Univ., Mus. Compar. Zool. Bul. 104: 551).

schaufussi schaufussi Mayr, changed status.

Formica (Neoformica) pallide-fulva schaufussi Mayr. A subsp. of *schaufussi*, not of *pallide-fulva* (teste Creighton, 1950. Harvard Univ., Mus. Compar. Zool. Bul. 104: 551).

FORMICA subgenus FORMICA Linnaeus, pp. 860-873

Taxonomy: Yarrow, 1950. Internatl. Comn. Zool. Nomencl., Bul. Zool. Nomencl. 4: 408.—G. C. and J. Wheeler, 1953. Ent. Soc. Amer. Ann. 46: 160, (larvae).—E. O. Wilson and W. L. Brown, 1955. Psyche 62: 108-129, pl. 2, figs. 1-8.—Yarrow, 1955. Internatl. Comn. Zool. Nomencl., Bul. Zool. Nomencl. 9: 313-318 (genotype).

altipetens W. M. Wheeler, changed status.

Formica (Formica) cinerea var. *altipetens* W. M. Wheeler. Raised to sp. rank (teste Creighton, 1950. Harvard Univ., Mus. Compar. Zool. Bul. 104: 531).

Taxonomy: Gregg, 1953. Ent. Soc. Wash. Proc. 55: 326-328, fig. 2. ♀.—G. C. and J. Wheeler, 1953. Ent. Soc. Amer. Ann. 46: 160, 162, pl. 4, figs. 1-5 (larva).

bradleyi W. M. Wheeler. Transf. to *Formica* subg. *Proformica* Ruzsky, p. 857.

**calviceps* Cole. N. Mex. (Capulin Mt. Natl. Mon.). (In *rufa* group.)

Formica (Formica) calviceps Cole, 1954. Tenn. Acad. Sci. Jour. 29: 164-165. ♀.

cinerea lepida W. M. Wheeler, changed status. Dakotas to Wash., Calif., Colo., N. Mex.

Formica (Formica) cinerea var. *lepida* W. M. Wheeler. Raised to subsp. rank (teste Creighton, 1950. Harvard Univ., Mus. Compar. Zool. Bul. 104: 531).

Biology: Cole, 1954. Tenn. Acad. Sci. Jour. 29: 166.

Taxonomy: Gregg, 1953. Ent. Soc. Wash. Proc. 55: 326, fig. 2. ♀.

cinerea montana Emery, changed status. N. Mex.

Formica (Formica) cinerea var. *montana* Emery. Raised to subsp. rank (teste Gregg, 1953. Ent. Soc. Wash. Proc. 55: 326, fig. 2. ♀.)

Formica (Formica) cinerea var. *neocinerea* W. M. Wheeler (syn. by Creighton, 1950. Harvard Univ., Mus. Compar. Zool. Bul. 104: 534).

Formica (Formica) cinerea var. *rutilans* W. M. Wheeler (syn. by Creighton, loc. cit. supra).

Taxonomy: Gregg, 1953. Ent. Soc. Wash. Proc. 55: 326, fig. 2. ♀.

cinerea var. *altipetens* W. M. Wheeler. Raised to sp. rank.

cinerea var. *lepida* W. M. Wheeler. Raised to subsp. rank.

cinerea var. *montana* Emery. Raised to subsp. rank.

cinerea var. *neocinerea* W. M. Wheeler. Syn. of *cinerea montana* Emery.

cinerea var. *rutilans* W. M. Wheeler. Syn. of *cinerea montana* Emery.

dakotensis dakotensis Emery, changed status.

Formica (Formica) dakotensis Emery. Reduced to subsp. rank (teste Creighton, 1950. Harvard Univ., Mus. Compar. Zool. Bul. 104: 484).

Formica (Formica) dakotensis var. *specularis* Emery (syn. by Creighton, loc. cit. supra).

Formica (Formica) dakotensis var. *saturata* W. M. Wheeler (syn. by Creighton, loc. cit. supra).

dakotensis montigena W. M. Wheeler, changed status.

Formica (Formica) dakotensis var. *montigena* W. M. Wheeler. Raised to subsp. rank (teste Creighton, 1950. Harvard Univ., Mus. Compar. Zool. Bul. 104: 484).

dakotensis var. *montigena* W. M. Wheeler. Raised to subsp. rank.

- dakotensis* var. *saturata* W. M. Wheeler. Syn. of *dakotensis dakotensis* Emery.
- dakotensis* var. *specularis* Emery. Syn. of *dakotensis dakotensis* Emery.
- densiventris* Viereck, changed status. (In *microgyna* group).
- Formica (Formica) fusca densiventris* Viereck. Raised to sp. rank (*teste* Creighton, 1950. Harvard Univ., Mus. Compar. Zool. Bul. 104: 499).
- Formica (Formica) microgyna rasilis* var. *spicata* W. M. Wheeler (syn. by Cole, 1955. Tenn. Acad. Sci. Jour. 30: 50).
- Formica (Formica) microgyna rasilis* var. *pinetorum* W. M. Wheeler (syn. of *rasilis spicata teste* Creighton, 1950, *op. cit.*, p. 507).
- Biology: Cole, 1954. Tenn. Acad. Sci. Jour. 29: 165.
- difficilis* Emery. Tenn., Va. (4,000 ft.).
- Taxonomy: G. C. and J. Wheeler, 1953. Ent. Soc. Amer. Ann. 46: 164 (larva).
- emeryi* W. M. Wheeler. Syn. of *subnuda* Emery.
- exsectoides* Forel, changed status. Colo., Kans., N. Mex., Tenn.
- Formica (Formica) exsectoides exsectoides* Forel. Raised to sp. rank (*teste* Creighton, 1950. Harvard Univ., Mus. Compar. Zool. Bul. 104: 513).
- Formica (Formica) exsectoides* var. *davisi* W. M. Wheeler (syn. by Creighton, *loc. cit. supra*).
- Formica (Formica) exsectoides* var. *hesperia* W. M. Wheeler (syn. by Creighton, *loc. cit. supra*).
- Taxonomy: G. C. and J. Wheeler, 1953. Ent. Soc. Amer. Ann. 46: 164 (larva).—Cole, 1954. Tenn. Acad. Sci. Jour. 29: 166.
- exsectoides exsectoides* Forel. Raised to sp. rank.
- exsectoides opaciventris* Emery. Raised to sp. rank.
- exsectoides* var. *davisi* W. M. Wheeler. Syn. of *exsectoides* Forel.
- exsectoides* var. *hesperia* W. M. Wheeler. Syn. of *exsectoides* Forel.
- foreliana* W. M. Wheeler. Syn. of *rufibarbis gnava* Buckley.
- fusca* Linnaeus, changed status.
- Formica (Formica) fusca fusca* Linnaeus. Raised to sp. rank (*teste* Creighton, 1950. Harvard Univ., Mus. Compar. Zool. Bul. 104: 532).
- Formica (Formica) fusca* var. *subsericea* Say (syn. by Creighton, *loc. cit. supra*).
- Formica (Formica) fusca* var. *subaenescens* Emery (syn. by Creighton, *loc. cit. supra*).
- Formica (Formica) fusca* var. *argentea* W. M. Wheeler (syn. by Creighton, *loc. cit. supra*).
- Formica lecontei* Kennedy and Dennis (syn. by Creighton, *loc. cit. supra*).
- Taxonomy: G. C. and J. Wheeler, 1953. Ent. Soc. Amer. Ann. 46: 164-165 (larva).
- fusca densiventris* Viereck. Raised to sp. rank.
- fusca pruinosa* W. M. Wheeler. Raised to sp. rank.
- fusca pruinosa* var. *lutescens* W. M. Wheeler. Syn. of *neoclara* Emery.
- fusca* var. *algida* W. M. Wheeler. A subsp. of *neorufibarbis* Emery.
- fusca* var. *argentea* W. M. Wheeler. Syn. of *fusca* Linnaeus.
- fusca* var. *gelida* W. M. Wheeler. A subsp. of *neorufibarbis* Emery.
- fusca* var. *marcida* W. M. Wheeler. Raised to sp. rank.
- fusca* var. *neoclara* Emery. Raised to sp. rank.
- fusca* var. *neorufibarbis* Emery. A subsp. of *neorufibarbis* Emery.
- fusca* var. *subaenescens* Emery. Syn. of *fusca* Linnaeus.

fusca var. *subsericea* Say. Syn. of *fusca* Linnaeus.

hewitti W. M. Wheeler. Colo., Idaho, Nev., N. Mex., Utah, Wash., Wyo.

impexa W. M. Wheeler. Minn.

integra *haemorrhoidalis* Emery, changed status. B. C.

Formica (Formica) rufa haemorrhoidalis Emery. A subsp. of *integra*, not of *rufa* (*teste* Creighton, 1950. Harvard Univ., Mus. Compar. Zool. Bul. 104: 488).

integra integra Nylander, changed status.

Formica (Formica) rufa integra Nylander. A subsp. of *integra*, not of *rufa* (*teste* Creighton, 1950. Harvard Univ., Mus. Compar. Zool. Bul. 104: 487).

integra tahoensis W. M. Wheeler, changed status.

Formica (Formica) rufa tahoensis W. M. Wheeler. A subsp. of *integra*, not of *rufa* (*teste* Creighton, 1950. Harvard Univ., Mus. Compar. Zool. Bul. 104: 488).

Taxonomy: Cole, 1956. Tenn. Acad. Sci. Jour. 31: 260. ♀ ♂.

integroides coloradensis W. M. Wheeler, changed status.

Formica (Formica) rufa coloradensis W. M. Wheeler. A subsp. of *integroides*, not of *rufa* (*teste* Creighton, 1950. Harvard Univ., Mus. Compar. Zool. Bul. 104: 489).

integroides integroides Emery, changed status. B. C.

Formica (Formica) rufa integroides Emery. A subsp. of *integroides*, not of *rufa* (*teste* Creighton, 1950. Harvard Univ., Mus. Compar. Zool. Bul. 104: 488).

Formica (Formica) rufa subcaviceps W. M. Wheeler (syn. by Creighton, *loc. cit. supra*).

integroides planipilis Creighton, changed status.

Formica (Formica) rufa planipilis Creighton. A subsp. of *integroides*, not of *rufa* (*teste* Creighton, 1950. Harvard Univ., Mus. Compar. Zool. Bul. 104: 490).

Taxonomy: Cole, 1956. Tenn. Acad. Sci. Jour. 31: 259. ♀.

integroides propinqua W. M. Wheeler, changed status. Calif. to Wash., along east. slopes Sierra and Cascade Mts.

Formica (Formica) rufa propinqua W. M. Wheeler. A subsp. of *integroides*, not of *rufa* (*teste* Creighton, 1950. Harvard Univ., Mus. Compar. Zool. Bul. 104: 490).

Taxonomy: Cole, 1956. Tenn. Acad. Sci. Jour. 31: 257-259. ♀ ♂.

integroides subfasciata W. M. Wheeler, changed status.

Formica (Formica) rufa subfasciata W. M. Wheeler. A subsp. of *integroides*, not of *rufa* (*teste* Creighton, 1950. Harvard Univ., Mus. Compar. Zool. Bul. 104: 490).

laeviceps Creighton, changed status.

Formica (Formica) rufa laeviceps Creighton. Raised to sp. rank (*teste* Creighton, 1950. Harvard Univ., Mus. Compar. Zool. Bul. 104: 491).

lecontei Kennedy and Dennis. Syn. of *fusca* Linnaeus.

manni W. M. Wheeler. Oreg.

marcida W. M. Wheeler, changed status. N. Mex., Utah, Wyo.

Formica (Formica) fusca var. *marcida* W. M. Wheeler. Raised to sp. rank (*teste* Creighton, 1950. Harvard Univ., Mus. Compar. Zool. Bul. 104: 534).

microgyna W. M. Wheeler, changed status.

Formica (Formica) microgyna microgyna W. M. Wheeler. Raised to sp. rank (*teste* Creighton, 1950. Harvard Univ., Mus. Compar. Zool. Bul. 104: 502).

Formica (Formica) microgyna var. *recidiva* W. M. Wheeler (syn. by Creighton, *op. cit.*, p. 504).

- microgyna californica* W. M. Wheeler. A subsp. of *whymperi* Forel.
- microgyna californica* var. *hybrida* W. M. Wheeler. Syn. of *whymperi californica* W. M. Wheeler.
- microgyna rasilis* W. M. Wheeler. Raised to sp. rank.
- microgyna rasilis* var. *pinetorum* W. M. Wheeler. Syn. of *densiventris* Viereck.
- microgyna rasilis* var. *pullula* W. M. Wheeler. Syn. of *whymperi whymperi* Forel.
- microgyna rasilis* var. *spicata* W. M. Wheeler. Syn. of *densiventris* Viereck.
- microgyna scitula* W. M. Wheeler. Raised to sp. rank.
- microgyna spatulata* Buren. Raised to sp. rank.
- microgyna* var. *recidiva* W. M. Wheeler. Syn. of *microgyna* W. M. Wheeler.
- mucescens* W. M. Wheeler, changed status.
- Formica (Formica) rufa mucescens* W. M. Wheeler. Raised to sp. rank (*teste* Creighton, 1950. Harvard Univ., Mus. Compar. Zool. Bul. 104: 491).
- neoclara* Emery, changed status. Kans.
- Formica (Formica) fusca* var. *neoclara* Emery. Raised to sp. rank (*teste* Creighton, 1950. Harvard Univ., Mus. Compar. Zool. Bul. 104: 535).
- Formica (Formica) fusca pruinosa* var. *lutescens* W. M. Wheeler (syn. by Creighton, *loc. cit. supra*).
- Biology: La Berge 1952. Kans. Ent. Soc. Jour. 25: 59.
- Taxonomy: G. C. and J. Wheeler, 1953. Ent. Soc. Amer. Ann. 46: 165, pl. 4, figs. 6-7 (larva).
- neurufibaris algida* W. M. Wheeler, changed status.
- Formica (Formica) fusca* var. *algida* W. M. Wheeler. A subsp. of *neurufibaris*, not of *fusca* (*teste* Creighton, 1950. Harvard Univ., Mus. Compar. Zool. Bul. 104: 537).
- Taxonomy: G. C. and J. Wheeler, 1953. Ent. Soc. Amer. Ann. 46: 165 (larva).
- neurufibaris gelida* W. M. Wheeler, changed status.
- Formica (Formica) fusca* var. *gelida* W. M. Wheeler. A subsp. of *neurufibaris*, not of *fusca* (*teste* Creighton, 1950. Harvard Univ., Mus. Compar. Zool. Bul. 104: 537).
- neurufibaris neurufibaris* Emery, changed status. Ariz., ? Mich., N. Mex.
- Formica (Formica) fusca* var. *neurufibaris* Emery. A subsp. of *neurufibaris*, not of *fusca* (*teste* Creighton, 1950. Harvard Univ., Mus. Compar. Zool. Bul. 104: 536).
- nevadensis* W. M. Wheeler. After orig. cit. change ♂ to ♀.
- Taxonomy: Cole, 1956. Tenn. Acad. Sci. Jour. 31: 256-257.
- obscuripes obscuripes* Forel, changed status. Mich., N. Mex.
- Formica (Formica) rufa obscuripes* Forel. A subsp. of *obscuripes*, not of *rufa* (*teste* Creighton, 1950. Harvard Univ., Mus. Compar. Zool. Bul. 104: 492).
- Formica (Formica) rufa melanotica* Emery (syn. by Creighton, *loc. cit. supra*).
- Biology: Sallee and King. 1947. Iowa Acad. Sci. Proc. 54: 349-352.—King and Walters, 1950. *Op. cit.* 57: 469-473, fig. 1.—King and Sallee, 1953. *Op. cit.*, 60: 656-659.
- Taxonomy: G. C. and J. Wheeler, 1953. Ent. Soc. Amer. Ann. 46: 165-166 (larva).
- obscuripes ravidia* W. M. Wheeler, changed status.
- Formica (Formica) rufa ravidia* W. M. Wheeler. A subsp. of *obscuripes*, not of *rufa* (*teste* Creighton, 1950. Harvard Univ., Mus. Compar. Zool. Bul. 104: 493).

obscuriventris clivia Creighton, changed status.

Formica (Formica) rufa clivia Creighton. A subsp. of **obscuriventris**, not of *rufa* (*teste* Creighton, 1950. Harvard Univ., Mus. Compar. Zool. Bul. 104: 494).

Morphology: King, 1955. Iowa Acad. Sci. Proc. 62: 509-513.

obscuriventris obscuriventris Mayr, changed status. ? N. Dak.

Formica (Formica) rufa obscuriventris Mayr. A subsp. of **obscuriventris**, not *rufa* (*teste* Creighton, 1950. Harvard Univ., Mus. Compar. Zool. Bul. 104: 493).

Formica (Formica) rufa gymnomma W. M. Wheeler (syn. by Creighton, *loc. cit. supra*).

obtusopilosa alticola W. M. Wheeler, changed status.

Formica (Formica) obtusopilosa var. *alticola* W. M. Wheeler. Raised to subsp. rank (*teste* Creighton, 1950. Harvard Univ., Mus. Compar. Zool. Bul. 104: 466).

obtusopilosa var. *alticola* W. M. Wheeler. Raised to subsp. rank.

opaciventris Emery, changed status. N. Mex.

Formica (Formica) exsectoides opaciventris Emery. Raised to sp. rank (*teste* Creighton, 1950. Harvard Univ., Mus. Compar. Zool. Bul. 104: 514).

Biology: Cole, 1954. Tenn. Acad. Sci. Jour. 29: 166.

Taxonomy: Gregg, 1952. Psyche 59: 14-16. ♀.

oreas comptula W. M. Wheeler, changed status. Alta., Iowa, N. Dak.

Formica (Formica) oreas var. *comptula* W. M. Wheeler. Raised to subsp. rank (*teste* Creighton, 1950. Harvard Univ., Mus. Compar. Zool. Bul. 104: 494).

oreas oreas W. M. Wheeler, changed status. Mont., Wyo.

Formica (Formica) oreas W. M. Wheeler. Reduced to subsp. rank (*teste* Creighton, 1950. Harvard Univ., Mus. Compar. Zool. Bul. 104: 494).

Biology: Cole, 1954. Tenn., Acad. Sci. Jour. 29: 165.

oreas var. *comptula* W. M. Wheeler. Raised to subsp. rank.

pergandei Emery. Syn. of **subintegra** Emery.

perpilosa W. M. Wheeler. Kans.

Biology: LaBerge, 1952. Kans. Ent. Soc. Jour. 25: 59.

pilicornis Emery.

Taxonomy: Gregg, 1953. Ent. Soc. Wash. Proc. 55: 326, fig. 2. ♂.

postoculata Kennedy and Dennis. Ill., Iowa.

pruinosa W. M. Wheeler, changed status.

Formica (Formica) fusca pruinosa W. M. Wheeler. Raised to sp. rank (*teste* Creighton, 1950. Harvard Univ., Mus. Compar. Zool. Bul. 104: 538).

puberula Emery, changed status.

Formica (Formica) sanguinea puberula Emery. Raised to sp. rank (*teste* Creighton, 1950. Harvard Univ., Mus. Compar. Zool. Bul. 104: 468).

querquetulana Kennedy and Dennis. Ohio to New England.

rasilis W. M. Wheeler, changed status.

Formica (Formica) microgyna rasilis W. M. Wheeler. Raised to sp. rank (*teste* Creighton 1950. Harvard Univ., Mus. Compar. Zool. Bul. 104: 506).

rubicunda Emery, changed status. N. Mex.

Formica (Formica) sanguinea rubicunda Emery. Raised to sp. rank (*teste* Creighton, 1950. Harvard Univ., Mus. Compar. Zool. Bul. 104: 468).

rufa clivia Creighton. Subsp. of **obscuriventris** Mayr.

- rufa coloradensis* W. M. Wheeler. Subsp. of *integroides* Emery.
- rufa gymnomma* W. M. Wheeler. Syn. of *obscuriventris obscuriventris* Mayr.
- rufa haemorrhoidalis* Emery. Subsp. of *integra* Nylander.
- rufa integra* Nylander. A subsp. of *integra* Nylander.
- rufa integroides* Emery. A subsp. of *integroides* Emery.
- rufa laeviceps* Creighton. Raised to sp. rank.
- rufa melanotica* Emery. Syn. of *obscuripes obscuripes* Forel.
- rufa mucescens* W. M. Wheeler. Raised to sp. rank.
- rufa obscuripes* Forel. A subsp. of *obscuripes* Forel.
- rufa obscuriventris* Mayr. A subsp. of *obscuriventris* Mayr.
- rufa planipilis* Creighton. A subsp. of *integroides* Emery.
- rufa propinqua* W. M. Wheeler. A subsp. of *integroides* Emery.
- rufa ravida* W. M. Wheeler. A subsp. of *obscuripes* Forel.
- rufa subcaviceps* W. M. Wheeler. Syn. of *integroides integroides* Emery.
- rufa subfasciata* W. M. Wheeler. A subsp. of *integroides* Emery.
- rufa subnitens* Creighton. Raised to sp. rank.
- rufa tahoensis* W. M. Wheeler. A subsp. of *integra* Nylander.
- rufibarbis gnava* Buckley, changed status.
- Formica (Formica) rufibarbis* var. *gnava* Buckley. Raised to subsp. rank (*teste* Creighton, 1950. Harvard Univ., Mus. Compar. Zool. Bul. 104: 539).
- Formica (Formica) foreliana* W. M. Wheeler (syn. by Creighton, *loc. cit. supra*).
- rufibarbis occidua* W. M. Wheeler, changed status.
- Formica (Formica) rufibarbis* var. *occidua* W. M. Wheeler. Raised to subsp. rank (*teste* Creighton, 1950. Harvard Univ., Mus. Compar. Zool. Bul. 104: 539).
- rufibarbis* var. *gnava* Buckley. A subsp. of *rufibarbis* Fabricius.
- rufibarbis* var. *occidua* W. M. Wheeler. A subsp. of *rufibarbis* Fabricius.
- sanguinea aserva* Forel. Syn. of *subnuda* Emery.
- sanguinea puberula* Emery. Raised to sp. rank.
- sanguinea rubicunda* Emery. Raised to sp. rank.
- sanguinea rubicunda* var. *sublucida* W. M. Wheeler. Raised to sp. rank.
- sanguinea subintegra* Emery. Raised to sp. rank.
- sanguinea subintegra* var. *gilvescens* W. M. Wheeler. Syn. of *subintegra* Emery.
- sanguinea subnuda* Emery. Raised to sp. rank.
- scitula* W. M. Wheeler, changed status.
- Formica (Formica) microgyna scitula* W. M. Wheeler. Raised to sp. rank. (*teste* Creighton, 1950. Harvard Univ., Mus. Compar. Zool. Bul. 104: 507).
- spatulata* Buren, changed status. B. C., Mont., N. Dak.
- Formica (Formica) microgyna spatulata* Buren. Raised to sp. rank (*teste* Creighton, 1950. Harvard Univ., Mus. Compar. Zool. Bul. 104: 508).
- subintegra* Emery, changed status. N. Dak.
- Formica (Formica) sanguinea subintegra* Emery. Raised to sp. rank (*teste* Creighton, 1950. Harvard Univ., Mus. Compar. Zool. Bul. 104: 470).

- Formica (Formica) pergandei*** Emery (Syn. by Wilson and Brown, 1955. *Psyche* 62: 120).
- Formica (Formica) sanguinea subintegra*** var. *gilvescens* W. M. Wheeler syn. by Creighton, *loc. cit. supra*).
- sublucida** W. M. Wheeler, changed status.
Formica (Formica) sanguinea rubicunda var. *sublucida* W. M. Wheeler. Raised to sp. rank (*teste* Creighton, 1950. Harvard Univ., Mus. Compar. Zool. Bul. 104: 471).
- subnitens** Creighton, changed status. B. C., N. Mex., ? Wyo.
Formica (Formica) rufa subnitens Creighton. Raised to sp. rank (*teste* Cole, 1955. Tenn. Acad. Sci. Jour. 30: 50).
 Biology: Cole, 1954. Tenn. Acad. Sci. Jour. 29: 165.
- subnuda** Emery, changed status.
Formica (Formica) sanguinea subnuda Emery. Raised to sp. rank (*teste* Wilson and W. L. Brown, 1955. *Psyche* 62: 118).
Formica (Formica) sanguinea aserva Forel (syn. by Creighton, 1950. Harvard Univ., Mus. Compar. Zool. Bul. 104: 469).
Formica (Formica) emeryi W. M. Wheeler (syn. by Wilson and Brown, *loc. cit. supra*).
 Taxonomy: G. C. and J. Wheeler, 1953. Ent. Soc. Amer. Ann. 46: 170 (larva).
- subpolita camponoticeps** W. M. Wheeler, changed status. Oreg., Nev.
Formica (Formica) subpolita var. camponoticeps W. M. Wheeler. Raised to subsp. rank (*teste* Creighton, 1950. Harvard Univ., Mus. Compar. Zool. Bul. 104: 542).
- subpolita ficticia** W. M. Wheeler, changed status. ? B. C., Utah, Wyo.
Formica (Formica) subpolita var. ficticia W. M. Wheeler. Raised to subsp. rank (*teste* Creighton, 1950. Harvard Univ., Mus. Compar. Zool. Bul. 104: 542).
- subpolita var. camponoticeps** W. M. Wheeler. Raised to subsp. rank.
- subpolita var. ficticia** W. M. Wheeler. Raised to subsp. rank.
- ulkei** Emery. Mich., Mont.
Formica (Formica) ulkei var. *hebesens* W. M. Wheeler (syn. by Creighton, 1950. Harvard Univ., Mus. Compar. Zool. 104: 515).
 Taxonomy: G. C. and J. Wheeler, 1953. Ent. Soc. Amer. Ann. 46: 168 (larva).
- ulkei var. hebesens** W. M. Wheeler. Syn. of *ulkei* Emery.
- wheeleri** Creighton. Ariz., Colo., N. Mex. Slaves: *Formica fusca* L., *Formica neorufibarbis neorufibarbis* Emery.
 Biology: Cole, 1954. Tenn. Acad. Sci. Jour. 29: 164.—Wilson, 1955. *Psyche* 62: 130-133.
- whymperi adamsi** W. M. Wheeler, changed status.
Formica (Formica) whymperi var. *adamsi* W. M. Wheeler. Raised to subsp. rank (*teste* Creighton, 1950. Harvard Univ., Mus. Compar. Zool. Bul. 104: 509).
- whymperi alpina** W. M. Wheeler, changed status. N. Mex., Utah.
Formica (Formica) whymperi var. *alpina* W. M. Wheeler. Raised to subsp. rank (*teste* Creighton, 1950. Harvard Univ., Mus. Compar. Zool. Bul. 104: 509).
 Biology: Cole, 1954. Tenn. Acad. Sci. Jour. 29: 165-166.
- whymperi californica** W. M. Wheeler, changed status. Calif. and Wash. to Idaho and Mont.
Formica (Formica) microgyna californica W. M. Wheeler. A subsp. of *whymperi*, not of *microgyna* (*teste* Creighton, 1950. Harvard Univ., Mus. Compar. Zool. Bul. 104: 510).
Formica (Formica) microgyna californica var. *hybrida* W. M. Wheeler (syn. by Creighton, *loc. cit. supra*).

whymperi whymperi Forel, changed status. Mont. to B. C. and Wash.

Formica (Formica) whymperi Forel. Reduced to subsp. rank (*teste* Creighton, 1950. Harvard Univ., Mus. Compar. Zool. Bul. 104: 508).

Formica (Formica) microgyna rasilis var. *pullula* W. M. Wheeler (syn. by Creighton, 1950, *op. cit.*, p. 509).

whymperi var. *adamsi* W. M. Wheeler. Raised to subsp. rank.

whymperi var. *alpina* W. M. Wheeler. Raised to subsp. rank.

Unrecognized Forms of *Formica* Linnaeus, p. 873

Delete from Catalog. Transf. *Formica Connecticutensis* Buckley, *Formica Nortonii* Buckley, *Formica Nova Anglae* Buckley, *Formica politurata* Buckley and *Formica Virginiana* Buckley to p. 875 under Unrecognized Forms of Subfamily Formicinae.

Genus *POLYERGUS* Latreille, pp. 873-875

lucidus lucidus Mayr. N. Mex.

Polyergus lucidus montivagus W. M. Wheeler (syn. by Creighton, 1950. Harvard Univ., Mus. Compar. Zool. Bul. 104: 557).

lucidus montivagus W. M. Wheeler. Syn. of *lucidus lucidus* Mayr.

rufescens breviceps Emery.

Polyergus rufescens breviceps var. *silvestrii* Santschi (syn. by Creighton, 1950. Harvard Univ., Mus. Compar. Zool. Bul. 104: 558).

Polyergus rufescens breviceps var. *fusciventris* W. M. Wheeler (syn. by Creighton, *op. cit. supra*, p. 559).

rufescens breviceps var. *fusciventris* W. M. Wheeler. Syn. of *rufescens breviceps* Emery.

rufescens breviceps var. *silvestrii* Santschi. Syn. of *rufescens breviceps* Emery.

rufescens breviceps var. *umbratus* W. M. Wheeler. A subsp. of *rufescens* (Latreille).

rufescens umbratus W. M. Wheeler, changed status. Utah, Nev.

Polyergus rufescens breviceps var. *umbratus* W. M. Wheeler. A subsp. of *rufescens*, not a var. of *breviceps* (*teste* Creighton, 1950. Harvard Univ., Mus. Compar. Zool. Bul. 104: 560).

Unrecognized Forms of Subfamily Formicinae, p. 875

Camponotus herculeanus herculeanus herculeano-pennsylvanicus Forel. Transf. from Unrecognized Forms of Subgenus *Camponotus*, p. 842.

Camponotus herculeanus ligniperdus var. *rubens* W. M. Wheeler. Transf. from Unrecognized Forms of Subgenus *Camponotus*, p. 842.

Formica atra Buckley. Transf. from Unrecognized Forms of Subgenus *Myrmentoma*, p. 846.

Formica connecticutensis Buckley. Transf. from Unrecognized Forms of *Formica*, p. 873.

Formica laeta Say. Transf. from Unrecognized Forms of *Camponotus*, p. 847.

Formica monticola Buckley. Transf. from Unrecognized Forms of *Lasius*, p. 854.

Formica Nortonii Buckley. Transf. from Unrecognized Forms of *Formica*, p. 873.

Formica Nova Anglae Buckley. Transf. from Unrecognized Forms of *Formica*, p. 873.

Formica politurata Buckley. Transf. from Unrecognized Forms of *Formica*, p. 873.

Formica saxicola Buckley. Transf. from Unrecognized Forms of *Lasius*, p. 854.

Formica semipunctata Kirby. Transf. from Unrecognized Forms of Subgenus *Camponotus*, p. 842.

Formica septentrionale Buckley. Transf. from Unrecognized Forms of Subgenus *Myrmentoma*, p. 846.

Formica Virginiana Buckley. Transf. from Unrecognized Forms of *Formica*, p. 873.

Superfamily VESPOIDEA

Family VESPIDAE

VESPULA subgenus VESPULA Thomson, pp. 875-877

Change Thompson to Thomson in generic and subgeneric headings.

pennsylvanica (Saussure).

Biology: F. K. Smith, 1956. Ent. News 67: 141-146, 1 fig.

rufa consobrina (Saussure). N. Mex., Ariz.

squamosa (Drury). Change Southwest. to Southeast. in range.

sulphurea (Saussure). Baja Calif.

Genus POLISTES Latreille, pp. 878-879

**carnifex carnifex* (Fabricius). Ariz. (Nogales); Mexico to Argentina.

Vespa carnifex Fabricius, 1775. Syst. Ent., p. 365. ♀.

Polistes onerata Lepeletier, 1836. Hist. Nat. Ins. Hym. 1: 524. ♂.

Polistes valida Say, 1837. Boston Jour. Nat. Hist. 1: 389. ♀ ♂.

Polistes transverso-strigata Spinola, 1851. Accad. Sci. Torino Mem. (2) 13: 78. ♀.

Polistes transversosignatus (!) Saussure, 1853. Études sur la famille des Vespides, v. 2, p. 90.

**exclamans arizonensis* Snelling. Ariz., Calif.; Mexico (Sonora).

Polistes exclamans arizonensis Snelling, 1954. Kans. Ent. Soc. Jour. 27: 152. ♀ ♂.

exclamans exclamans Viereck.

Polistes exclamans louisianus Bequaert (syn. by Snelling, 1955. Amer. Mus. Novitates 1701: 5).

exclamans louisianus Bequaert. Syn. of *exclamans exclamans* Viereck.

fuscatus aurifer Saussure.

Biology: Snelling, 1954. Kans. Ent. Soc. Jour. 27: 154.

**fuscatus connectens* Bequaert. Syn. of *fuscatus variatus* Cresson.

fuscatus variatus Cresson.

**Polistes fuscatus connectens* Bequaert, 1940. N. Y. Ent. Soc. Jour. 48: 21. ♀ ♂. N. syn. (*Teste* R. M. Bohart who has seen type.)

major major Palisot de Beauvois. Fla. (Miami).

**pacificus pacificus* Fabricius. South. Tex. to South America.

Polistes pacifica Fabricius, 1805. Systema Piezatorum, p. 274. ♀.

Taxonomy: Bequaert, 1937. Inst. Biol. Veget. Arch. 3: 196.

MISCHOCYTTARUS subgenus KAPPA Saussure, p. 880

flavitarsis flavitarsis (Saussure).

Biology: Snelling, 1953. Kans. Ent. Soc. Jour. 26: 143-145.

ZETHUS subgenus ZETHUSCULUS Saussure, p. 881

slossonae Fox. In orig. cit., change Ent. News 2 to Ent. News 3.

spinipes spinipes Say. Mass. (Cape Cod).

Genus PSEUDOMASARIS Ashmead, pp. 882-883

Biology (flower preferences): Cooper and Bequaert, 1950. *Psyche* 57: 137-142.—Cooper and Bequaert, 1952. *Amer. Midland Nat.* 48: 103-110.

PSEUDOMASARIS subgenus PSEUDOMASARIS Ashmead, p. 882

coquilletti Rohwer. Utah.

edwardsii (Cresson). Colo., Ariz.

marginalis (Cresson). Utah.

zonalis albopictus Bohart. In orig. cit. add *albopictus* after *zonalis*.

PSEUDOMASARIS subgenus HOLOPTICUS Bradley, p. 883

maculifrons (Fox). N. Mex., Nev.

Genus EUMENES Latreille, pp. 884-885

aureus Isely. Okla.

bollii bollii Cresson. Md. (Cumberland).

crucifera nearcticus Bequaert. Add n. status after Bequaert in subsp. heading.

smithii belfragei Cresson. Mo., Nebr.; Mexico (Michoacan, Guadalajara).

smithii smithii Saussure. N. C., Ga.

verticalis coloradensis Cresson. Add n. status after Cresson in subsp. heading.

Genus PSEUDODYNERUS Saussure, p. 886

quadrisectus (Say). Colo.

Genus ODYNERUS Latreille, p. 887

dilectus Saussure. Alaska (Ft. Yukon).

Genus PSEUDEPIPONA Saussure, p. 887

herrichii aldrichi (Fox). B. C., Utah, Colo., N. Mex. Add n. comb. after (Fox) in subsp. heading.

Genus RYGCHIUM Spinola, pp. 887-892

annectens (Saussure). Add n. comb. after (Saussure) in sp. heading.

annulatum arvense (Saussure). Prey: *Elasmopalpus furpurellus* Hlst. larvae. Add n. comb., n. status, after (Saussure) in subsp. heading.

Biology: Evans, 1956. *Ent. Soc. Wash. Proc.* 58: 267-268, figs. 1, 2.

bidens (Saussure). Add n. comb. after (Saussure) in sp. heading.

boscii albivestis (Bohart). Add n. comb. (Bohart) in subsp. heading.

boscii auranum (Cameron). Baja Calif.

boscii boscii (Lepeletier). East. U. S. west to Utah and Ariz.; Mexico. Add n. comb. after (Lepeletier) in subsp. heading.

delicatum (Cresson). Add n. comb. after (Cresson) in sp. heading.

**designatum* (Cresson). Syn. of *dorsale dorsale* (Fabricius).

digiticornis Bohart. Utah.

dorsale dorsale (Fabricius).

**Odynerus designatus* Cresson, 1872. *Amer. Ent. Soc. Trans.* 4: 235. ♀. (Omitted from Catalog.)

dorsale stricklandi (Bequaert). Add n. comb. after (Bequaert) in subsp. heading.

exoglyphum albiovittatum (Bohart). Add n. comb. after (Bohart) in subsp. heading.

exoglyphum exoglyphum (Bohart). Add n. comb. after (Bohart) in subsp. heading.

foraminatum foraminatum (Saussure). Nests in wood borings.

Biology: Cooper, 1954. Ent. Soc. Wash. Proc. 56: 281-282.

hidalgo boreo-orientalis (Bequaert). Add n. comb. after (Bequaert) in subsp. heading.

hidalgo viereckii (Cameron). Add n. comb. after (Cameron) in subsp. heading.

leucomelas (Saussure). Ariz.

***manifestum** (Cresson). Syn. of **molestum** (Saussure).

megaera (Lepeletier). Nests in wood borings. Prey: Larvae of *Nephopteryx nyssaecolella* (Dyar).

Biology: Krombein, 1955. Ent. Soc. Wash. Proc. 57: 146-147.

molestum (Saussure). Kans.

***Odynerus manifestus** Cresson, 1872. Amer. Ent. Soc. Trans. 4: 240.

♂ ♀ Preocc.

***Odynerus primus** Dalla Torre, 1889. Wien. Ent. Ztg. 8: 125. N. name.

morelios (Saussure). Add n. comb. after (Saussure) in sp. heading.

***primum** (Dalla Torre). Syn. of **molestum** (Saussure).

provisoreum (Viereck). Add n. comb. after (Viereck) in sp. heading.

tempiferum tempiferum (Viereck). Utah, Wyo., S. Dak.

turpe (Saussure). Add n. comb. after (Saussure) in sp. heading.

Genus **PACHODYNERUS** Saussure, p. 892

acuticarinatus (Cameron). Add n. comb. after (Cameron) in sp. heading.

erynnis (Lepeletier). Mass. (Cape Cod).

nasidens (Latreille). Fla. (Plantation Key).

pulverulentus (Viereck). Add n. comb. after (Viereck) in sp. heading.

Genus **ANCISTROCERUS** Wesmael, pp. 892-896

antilope antilope (Panzer). Prey: larvae of Pyralididae, Gelechiidae, Epipaschiidae, Phalaenidae, Phycitidae, Tortricidae. Nests in wood borings. Constructs a silken cocoon. In Buckle ref. change v. 51 to v. 61; note *Epargyreus tityrus* F. as questionable prey.

Biology: Cooper, 1953. Amer. Ent. Soc. Trans. 79: 13-35.—Cooper, 1955. Amer. Ent. Soc. Trans. 80: 119-174, 1 pl., 6 text figs.—Medler and Fye, 1956. Ent. Soc. Amer. Ann. 49: 97-102, 2 figs.

catskill catskill (Saussure). Delete "except Calif." from range.

parietum (Linnaeus). Nesting in crack in mortar. Prey: Larvae of Tortricidae.

Biology: Miller, 1954. Canad. Ent. 86: 197-198, 4 figs.

tigris albolacteus Bequaert. Alaska, Utah.

tigris tigris (Saussure). Nests in wood borings. Prey: Larvae of Olethreutidae and Gelechiidae.

Biology: Krombein, 1954. Brooklyn Ent. Soc. Bul. 49: 2-3.

Genus **SYMMORPHUS** Wesmael, p. 896

albomarginatus (Saussure). Conn., Mich., Alaska.

canadensis (Saussure). Tex. Prey: leaf-mining coleopterous larvae, *Chalepus dorsalis* Thunb. and *Prionomerus calceatus* (Say).

Biology: Krombein, 1952. Amer. Ent. Soc. Trans. 78: 91.—Krombein, 1954. Brooklyn Ent. Soc. Bul. 49: 3.—Krombein, 1956. Ent. Soc. Wash. Proc. 58: 155.

cristatus cristatus (Saussure). Add n. comb., n. status, after (Saussure) in subsp. heading.

cristatus nevadensis (Cameron). Add n. comb., n. status, after (Cameron) in subsp. heading.

meridionalis Viereck. Nebr.

Genus LEPTOCHILUS Saussure, pp. 896-898

Taxonomy: Bohart, 1955. Ent. Soc. Wash. Proc. 57: 287-299, 19 figs. (spp. of *trinodus* group).

***acolhuus** (Saussure), n. comb. South. Tex.; Mexico.

Odynerus acolhuus Saussure, 1857. Rev. Mag. Zool. (2) 9: 280. ♀.

***arenicolus** Bohart. Calif. (Antioch).

Leptochilus arenicolus Bohart, 1955. Ent. Soc. Wash. Proc. 57: 299, fig. 19. ♂ ♀.

***bechteli** Bohart. Calif., Ariz.; deserts.

Leptochilus bechteli Bohart, 1955. Ent. Soc. Wash. Proc. 57: 294, figs. 1, 12. ♂ ♀.

bellulus (Cresson). S. C., Ga. Nests in rose stem. Add n. comb. after (Cresson) in sp. heading.

***cavatus** Bohart. South. Calif.

Leptochilus cavatus Bohart, 1955. Ent. Soc. Wash. Proc. 57: 295, fig. 13. ♂ ♀.

congressus (Viereck). Tex.

erubescens (Bohart). Utah, Idaho. Add n. comb. after (Bohart) in sp. heading.

***gibboceps** Bohart. Calif.

Leptochilus gibboceps Bohart, 1955. Ent. Soc. Wash. Proc. 57: 296, fig. 17. ♂ ♀.

infuscipennis (Bohart). Idaho. Add n. comb. after (Bohart) in sp. heading.

lissosomus (Bohart). Add n. comb. after (Bohart) in sp. heading.

martini (Bohart). Ariz., Utah. Add n. comb. after (Bohart) in sp. heading.

***micelbacheri** Bohart. Calif.; Baja Calif.

Leptochilus micelbacheri Bohart, 1948. Calif. Acad. Sci. Proc. (4) 24: 326. ♂ ♀.

minutissimus (Bohart). Tex. Add n. comb. after (Bohart) in sp. heading.

monolobus Bohart. Fla.

Taxonomy: Bohart, 1955. Ent. Soc. Wash. Proc. 57: 294, fig. 15.

***occidentalis** Bohart. Oreg., Calif., Nev., Utah, Ariz., N. Mex., Colo., Wyo.

Leptochilus occidentalis Bohart, 1955. Ent. Soc. Wash. Proc. 57: 291, figs. 3, 8, 10. ♂ ♀.

ornatus ornatus Saussure. Add n. status after Saussure in subsp. heading; after cit. of *ornatus* change p. 233 to p. 236 and ♀ to ♀ ♂.

ornatus zendaloides (Robertson). Tex., Kans., Nebr., Colo. Add n. comb., n. status after (Robertson) in subsp. heading.

rubicundulus (Bohart). Add n. comb. after (Bohart) in sp. heading.

rufinodus (Cresson). Add n. comb. after (Cresson) in sp. heading.

rufobasilaris (Ashmead). Add n. comb. after (Ashmead) in sp. heading.

russatus (Bohart). Utah, Tex.; Mexico (Coahuila). Add n. comb. after (Bohart) in sp. heading.

russipes (Bohart). Add n. comb. after (Bohart) in sp. heading.

**schlingeri* Bohart. Calif.

Leptochilus schlingeri Bohart, 1955. Ent. Soc. Wash. Proc. 57: 298, figs. 4, 5, 18. ♂ ♀.

**singulus* Bohart. S. Dak. south to Tex., west to Idaho, Ariz., Calif.

Leptochilus singulus Bohart, 1955. Ent. Soc. Wash. Proc. 57: 293, fig. 11. ♂ ♀.

tetralobus (Bohart). Add n. comb. after (Bohart) in sp. heading.

tosquineti (Cameron). Add n. comb. after (Cameron) in sp. heading.

trachysomus (Bohart). Utah. Add n. comb. after (Bohart) in sp. heading.

**trinodus* Bohart. Calif., Ariz., N. Mex., Tex.

Leptochilus trinodus Bohart, 1955. Ent. Soc. Wash. Proc. 57: 289, figs. 2, 6, 7, 9. ♂ ♀.

**umbifer* Bohart. Calif.

Leptochilus umbifer Bohart, 1955. Ent. Soc. Wash. Proc. 57: 297, fig. 16. ♂ ♀.

**williamsi* Bohart. Calif., Oreg., Idaho.

Leptochilus williamsi Bohart, 1955. Ent. Soc. Wash. Proc. 57: 297, fig. 14. ♂ ♀.

STENODYNERUS subgenus STENODYNERUS Saussure, pp. 898-901

ammonia ammonia (Saussure). S. C., N. C.

ammonia histrionalis (Robertson). Nests in wood borings. Prey: larvae of Tortricidae. Add n. comb., n. status, after (Robertson) in subsp. heading.

Biology: Krombein, 1955. Ent. Soc. Wash. Proc. 57: 147-148.

ammonia paenevagus (Viereck). Add n. comb., n. status, after (Viereck) in subsp. heading.

anormiformis (Viereck). Add n. comb. after (Viereck) in sp. heading.

apache Bohart. Calif.

blandus blandus (Saussure). Utah, Ariz.

**blepharus* Bohart. Md. south to Fla., west to W. Va., Tex., Kans.

Stenodynerus (Stenodynerus) blepharus Bohart, 1953. Biol. Soc. Wash. Proc. 66: 185. ♂ ♀.

clypeolatus floridanus (Robertson). S. C.

cochisensis (Viereck). B. C., Idaho, Nebr., N. Mex.

fundatiformis fundatiformis (Robertson). Nests in ground. Prey: larvae of Chlamisinae (Chrysomelidae) and Pyralididae.

Biology: Evans, 1956. Ent. Soc. Wash. Proc. 58: 268, figs. 3, 4.

fundatus (Cresson). Ala., Miss., La., Tex., Ark., Kans., Mo., Okla., N. Mex.

Odynerus fundatus Cresson, 1872. Amer. Ent. Soc. Trans. 4: 242. ♀ ♂.

Taxonomy: Bohart, 1944. Pan-Pacific Ent. 20: 75.

kennicottianus antheus (Cameron). Add n. comb., n. status, after (Cameron) in subsp. heading.

kennicottianus kennicottianus (Saussure). Add n. comb., n. status, after (Saussure) in subsp. heading.

**krombeini* Bohart. N. C. (Kill Devil Hills). Nests in wood borings. Prey: lepidopterous larvae.

Stenodynerus (Stenodynerus) krombeini Bohart, 1953. Biol. Soc. Wash. Proc. 66: 187. ♂ ♀.

Biology: Krombein, 1955. Ent. Soc. Wash. Proc. 57: 148.

lineatifrons Bohart. Prey: larva of *Rhyacionia* sp.

Biology: Krombein, 1953. Ent. Soc. Wash. Proc. 55: 115.

lucidus (Rohwer). Add n. comb. after (Rohwer) in sp. heading.

microstictus (Viereck). Nests in ground and constructs an entrance turret to burrow. Prey: Larvae of Phaloniidae, Gelechiidae and Cosmopterygidae.

Biology: Evans, 1956. Ent. Soc. Wash. Proc. 58: 269, figs. 7, 8.

oculeus illinoensis (Robertson). Add n. comb., n. status, after (Robertson) in subsp. heading.

oculeus oculeus (Robertson). Add n. status after (Robertson) in subsp. heading.

***odontoschius** (Rohwer). Sny. of **percampanulatus** (Viereck).

***odontoschius** var. **dichrous** (Rohwer). Syn of **percampanulatus** (Viereck).

papagorum papagorum (Viereck). Sask., Idaho, Wyo., Utah.

percampanulatus (Viereck). Kans., Wyo., Utah. Change 1916 to 1915 in orig. cit. of **blavus** Rohwer.

***Odynerus** (**Stenodynerus**) **odontoschius** Rohwer, 1915. U. S. Natl. Mus. Proc. 49: 241. ♀.

***Odynerus** (**Stenodynerus**) **odontoschius** var. **dichrous** Rohwer, 1915. U. S. Natl. Mus. Proc. 49: 241. ♀.

***pulvinatus** Bohart. Mass. south to Fla., Mo., Kans., Mich.

Stenorynerus (!) (**Stenodynerus**) **pulvinatus** Bohart, 1953. Biol. Soc. Wash. Proc. 66: 186. ♂ ♀.

pulvivistis Bohart. Calif. deserts.

taos (Cresson). Tex., Kans., Nebr.

STENODYNERUS subgenus PARANCISTROCERUS Bequaert, pp. 901-903

Taxonomy: Bohart, 1952. Ent. Soc. Wash. Proc. 54: 38-53 (Calif. spp., key to U. S. spp.).

acanthopus (Cameron), n. comb. Tex. (Fedor).

Odynerus (**Ancistrocerus**) **acanthopus** Cameron. Type exam. and transf. to **Parancistrocerus** by Soika, 1941. Bol. Soc. Veneziana Stor. Nat. (n.s.) 2: 272. Transf. from *Nomina Dubia*, p. 907.

***acarigaster** Bohart. Wash., Oreg., Idaho, Utah, Calif., Nev., Ariz.

Stenodynerus (**Parancistrocerus**) **acarigaster** Bohart, 1952. Ent. Soc. Wash. Proc. 54: 49, fig. 8. ♂ ♀.

***acarophorus** Bohart. Wash., Oreg., Calif.

Stenodynerus (**Parancistrocerus**) **acarophorus** Bohart, 1952. Ent. Soc. Wash. Proc. 54: 45, fig. 2. ♂ ♀.

bicornis bicornis (Robertson). Add n. status, after (Robertson) in subsp. heading.

bicornis ceanothi (Rohwer). Tenn. Add n. comb., n. status, after (Rohwer) in subsp. heading.

chiricahuae Bohart. N. Mex.

colon (Cresson). N. syn. of **vagus vagus** (Saussure) (*teste* K. W. Cooper who has examined the type). N. b., **leionotum** Viereck is a valid sp., not a syn. of **colon**.

***cotti** Bohart. Calif., Oreg.

Stenodynerus (**Parancistrocerus**) **cotti** Bohart, 1952. Ent. Soc. Wash. Proc. 54: 52, fig. 11. ♂ ♀.

***declivatus** Bohart. South. Calif.; Baja Calif.

Stenodynerus **declivatus** Bohart, 1948. Calif. Acad. Sci. Proc. (4) 24: 331, pl. 12, figs. 7, 8. ♂ ♀.

Taxonomy: Bohart, 1952. Ent. Soc. Wash. Proc. 54: 46, fig. 3.

fulvipes rufovestis Bohart. Nests in wood borings. Prey: larvae of Olethreutidae or Phaloniidae.

Biology: Evans, 1956. Ent. Soc. Wash. Proc. 58: 270.

- histrion** (Lepeletier). Nests in wood borings. Prey: Lepidopterous larvae.
Biology: Krombein, 1955. Ent. Soc. Wash. Proc. 57: 148-149.
- lacunus** (Fox). Reared from abandoned clay cells of *Sceliphron*.
Taxonomy: Bohart, 1952. Ent. Soc. Wash. Proc. 54: 49, fig. 7.
- leionotus leionotus** (Viereck). A valid subsp., not a syn., of **colon colon** (Cresson) (*teste* K. W. Cooper who has examined type of **colon**).
- leionotus yumus** (Viereck). Replaces **colon yumus** (Viereck).
- ***mcclayi** Bohart. Calif., Idaho, N. Mex.
Stenodynerus (Parancistrocerus) mcclayi Bohart, 1952. Ent. Soc. Wash. Proc. 54: 51, fig. 10. ♂ ♀.
- minimoferus** Bohart. Nests in old *Sceliphron* cells.
Taxonomy: Bohart, 1952. Ent. Soc. Wash. Proc. 54: 47, fig. 5.
- minnesotaensis** (Cameron), n. comb. Minn.
Odynerus (Ancistrocerus) minnesotaensis Cameron. Type exam. and transf. to *Parancistrocerus* by Soika, 1941. Bol. Soc. Veneziana Stor. Nat. (n. s.) 2: 273. Trans. from Nomina Dubia, p. 907.
- ***parapedestris arenosus** Bohart. Calif., Nev., Ariz.
Stenodynerus (Parancistrocerus) parapedestris arenosus Bohart, 1952. Ent. Soc. Wash. Proc. 54: 48. ♂ ♀.
- ***parapedestris parapedestris** Bohart. South. Calif.
Stenodynerus (Parancistrocerus) parapedestris Bohart, 1952. Ent. Soc. Wash. Proc. 54: 47, fig. 6. ♂ ♀.
- pedestris bifureus** (Robertson). Add n. status, after (Robertson) in subsp. heading.
- ***pensylvanicus ignotatus** Bohart. Calif., Oreg., Wash., Idaho, Minn., Mich. N. B.
Stenodynerus (Parancistrocerus) pensylvanicus ignotatus Bohart, 1952. Ent. Soc. Wash. Proc. 54: 46, fig. 4. ♂ ♀.
- pensylvanicus pensylvanicus** (Saussure), changed status. N. Mex.
Stenodynerus (Parancistrocerus) pensylvanicus (Saussure). Reduced to subsp. rank (*teste* Bohart, 1952. Ent. Soc. Wash. Proc. 54: 41).
- perennis anacardivora** (Rohwer). S. C., Va., N. Y. Nesting in twig. Prey: Larvae of Olethreutidae and Gelechiidae.
Biology: Krombein, 1955. Ent. Soc. Wash. Proc. 57: 228-229.
- ***rectangulis frazieri** Bohart. Calif., Oreg.
Stenodynerus (Parancistrocerus) rectangulis frazieri Bohart, 1952. Ent. Soc. Wash. Proc. 54: 45, fig. 1. ♂ ♀.
- rectangulis rectangulis** (Viereck), changed status.
Stenodynerus (Parancistrocerus) rectangulis (Viereck). Reduced to subsp. rank (*teste* Bohart, 1952. Ent. Soc. Wash. Proc. 54: 40).
- ***siccus** Bohart. Colo., Utah, Wash. Calif., Ariz.; Baja Calif.
Stenodynerus (Parancistrocerus) siccus Bohart, 1952. Ent. Soc. Wash. Proc. 54: 50, fig. 9. ♂ ♀.
- ***subtoltecus** (Viereck), n. comb. Kans. (Hamilton Co.).
Odynerus subtoltecus Viereck, 1906. Amer. Ent. Soc. Trans. 32: 197. ♀ (♂ misdet.). (Type possibly lost, *teste* R. M. Bohart, *in litt.*)
- toltecus** (Saussure)
Taxonomy: Bohart, 1952. Ent. Soc. Wash. Proc. 54: 53, fig. 12.
- vagus vagus** (Saussure). Idaho. Builds multicellular clay nest attached to tree branch.
Odynerus colon Cresson, 1872. N. syn. (Based on type exam. by K. W. Cooper).
- Biology: Evans, 1956. Ent. Soc. Wash. Proc. 58: 269-270.

Genus DOLICHODYNERUS Bohart, p. 903

tanynotus (Cameron). Calif. (deserts); Mexico (Nuevo Leon).

Genus MARICOPODYNERUS Viereck, pp. 903-904*maricoporum* (Viereck). Tex.; Baja Calif.*rudiceps* Bohart. Ariz.*sericifrons* Bohart. Ariz.**PTEROCHEILUS subgenus MEGAPTEROCHEILUS Bohart, pp. 904-905****bradleyi* Bohart. Ariz. (Nogales).*Pterocheilus (Megapterocheilus) bradleyi* Bohart, 1950. Biol. Soc. Wash. Proc. 63: 195. ♂, ♀ (?).*crispocornis* Bohart. Nev., Ariz.*decorus decorus* Cresson. Nebr., Mont.*linsleyi* Bohart. Mexico (Nuevo Leon).*mirandus* Cresson. Utah.*texanus* Cresson. Prey: *Heliophana mitis* Grote larvae.

Biology: Evans, 1956. Ent. Soc. Wash. Proc. 58: 265-267, figs. 5, 6.

PTEROCHEILUS subgenus ONCHOPTEROCHEILUS Bohart, pp. 905-906*hirsutipennis* Bohart. Ariz.**hurdi* Bohart. Calif.*Pterocheilus (Onchopterocheilus) hurdi* Bohart, 1950. Biol. Soc. Wash. Proc. 63: 197. ♂ ♀.*panamintensis* Bohart. Ariz.**sculleni* Bohart. Ariz., Colo., Tex.*Pterocheilus (Onchopterocheilus) sculleni* Bohart, 1950. Biol. Soc. Wash. Proc. 63: 196. ♂ ♀.**PTEROCHEILUS subgenus MICROPTEROCHEILUS Bohart, p. 906***desertorum* Bohart. Nev., N. Mex.*flavobalteatus* Cameron. Wyo.**paenacuceps* Bohart. Wyo.*Pterocheilus (Micropterocheilus) paenacuceps* Bohart, 1950. Biol. Soc. Wash. Proc. 63: 200. ♀.**provancheri albotinctus* Bohart. Calif., Oreg., Wash., Wyo., Nev.*Pterocheilus (Micropterocheilus) provancheri albotinctus* Bohart, 1950. Biol. Soc. Wash. Proc. 63: 199. ♂ ♀.*provancheri provancheri* (Huard), changed status.*Pterocheilus (Micropterocheilus) provancheri* (Huard). Reduced to subsp. rank (*teste* Bohart, 1950. Biol. Soc. Wash. Proc. 63: 199).*seneconis* Rohwer. Nev.**sparsipunctatus* Bohart. Calif.*Pterocheilus (Micropterocheilus) sparsipunctatus* Bohart, 1950. Biol. Soc. Wash. Proc. 63: 198. ♂ ♀.**Nomina Dubia, p. 907***Odynerus acanthopus* Cameron. Transf. to *Stenodynerus* (*Parancistrocerus*), pp. 901-903.**Odynerus bimaculatus* Provancher, 1895. Nat. Canad. 22: 157. ♀ ♂.*Odynerus minnesotaensis* Cameron. Transf. to *Stenodynerus* (*Parancistrocerus*), pp. 901-903.**Odynerus robustus* Provancher, 1895. Nat. Canad. 22: 157. ♀.**Odynerus tricolor* Provancher, 1895. Nat. Canad. 22: 158. ♂.

Family POMPILIDAE

Ethology: Evans, 1953. Syst. Zool. 2: 155-172.

Subfamily PEPSINAE

Revision: Townes, 1957. U. S. Natl. Mus. Bul. 209: 1-220, 129 figs.

Genus **CHIRODAMUS** Haliday, p. 908

**Chrysocurgus* Haupt, 1937. Ztschr. f. Naturw. 91: 127, 134.

Type: *Sphex nitida* Fabricius. Orig. desig.

**Anacyphonyx* Banks, 1946. Harvard Univ., Mus. Compar. Zool. Bul. 96: 520.

Type: *Anacyphonyx fidelis* Banks. Orig. desig.

maculipennis (Smith). N. C., Kans., Tex.

pyrrhomelas (Walker). Prey: Female *Antrodiaetus pacificus* Simon.

validus (Cresson). N. C.

Genus **HEMIPEPSIS** Dahlbom, p. 909

ustulata ochroptera Stål. Prey: *Brachythele longitarsis* Simon.

Biology: Williams, 1956. Ent. Soc. Amer. Ann. 49: 460-462, figs. 20, 22.

Genus **PEPSIS** Fabricius, pp. 909-910

Revision: Hurd, 1952. Amer. Mus. Nat. Hist. Bul. 98: 257-334, 49 figs., 2 tables.

Biology: Williams, 1956. Ent. Soc. Amer. Ann. 49: 447-466, 24 figs.

angustimarginata Viereck. Northwest. Mexico.

**aquila* Lucas. South. Ariz. and N. Mex.; north-centr. Mexico.

Pepsis aquila Lucas, 1895. Berlin. Ent. Ztschr. 39: 797. ♂.

arizonica Banks. North-centr. Mexico.

Pepsis hirsuta Salman (syn. by Hurd, 1952. Amer. Mus. Nat. Hist. Bul. 98: 300).

azteca Cameron. Panama to Tex.

cerberus Lucas. A subsp. of *elegans* Lepeletier.

chrysothemis chrysothemis Lucas, changed status. North. Mexico.

Pepsis chrysothemis Lucas. Reduced to subsp. rank (*teste* Hurd, 1952. Amer. Mus. Nat. Hist. Bul. 98: 312).

chrysothemis lucasii Fox, changed status. Northeast. Mexico.

Pepsis lucasii Fox. Reduced to subsp. rank (*teste* Hurd, 1952. Amer. Mus. Nat. Hist. Bul. 98: 313).

elegans cerberus Lucas, changed status. North. Mexico.

Pepsis cerberus Lucas. Reduced to subsp. rank (*teste* Townes, 1957. U. S. Natl. Mus. Bul. 209: 30).

elegans elegans Lepeletier, changed status.

Pepsis elegans Lepeletier. Reduced to subsp. rank (*teste* Townes, 1957. U. S. Natl. Mus. Bul. 209: 30).

formosa formosa (Say), changed status. Northwest. Mexico.

Pepsis formosa (Say). Reduced to subsp. rank (*teste* Hurd, 1952. Amer. Mus. Nat. Hist. Bul. 98: 285).

formosa pattoni Banks, changed status. Baja Calif., west. Mexico.

Pepsis pattoni Banks. Reduced to subsp. rank (*teste* Hurd, 1952. Amer. Mus. Nat. Hist. Bul. 98: 287).

hirsuta Salman. Syn. of *arizonica* Banks.

lucasii Fox. A subsp. of *chrysothemis* Lucas.

**marginata* Palisot de Beauvois. South. Fla.; West Indies.

Pepsis marginata Palisot de Beauvois, 1809. Ins. Afr., Amer., p. 94, pl. 2, figs. 2, 3. ♂ ♀.

Pepsis heros Dahlbom, 1844. Hym. Europaea, v. 1, p. 122. ♀.

mexicana Lucas. Mexico south to Colombia.

mildei Stål. North. Mexico.

pallidolimbata pallidolimbata Lucas. North. Mexico incl. Baja Calif.

pattoni Banks. A subsp. of *formosa* (Say).

**saphirus* Palisot de Beauvois. South. Fla.; West Indies.

Pepsis saphirus Palisot de Beauvois, 1806. Ins. Afr., Amer., p. 39, pl. 1, fig. 4. ♀.

sherillae Hurd. Syn. of *thisbe* Lucas.

thisbe Lucas. North. Mexico incl. Baja Calif.

Pepsis sherillae Hurd. (syn. by Hurd, 1952. Amer. Mus. Nat. Hist. Bul. 98: 303).

**venusta* Smith. South. Ariz. to Brasil.

Pepsis venusta Smith, 1855. Cat. Hym. Brit., Mus., v. 3, p. 196. ♂.

Genus PRIOCNESUS Banks, p. 911

dakota (Cresson).

**Pompilus (Agenia) Dakota pallidicornis* Cresson, 1867. Amer. Ent. Soc. Trans. 1: 124. ♂. Preocc.

**dakota pallidicornis* (Cresson). Syn. of *dakota* (Cresson).

leiby (Brimley). Syn. of *nebulosus* (Dahlbom).

nebulosus (Dahlbom).

Priocnessus leiby (Brimley) (syn. by Townes, 1957. U. S. Natl. Mus. Bul. 209: 41).

**nigricans* Townes. Ariz.

Priocnessus nigricans Townes, 1957. U. S. Natl. Mus. Bul. 209: 47. ♀.

Genus PRIOCNEMIODES Radoszkowski, p. 911

**Cheilotus* Bradley, 1946. Soc. Cubana Hist. Nat. Mem. 18: 124.

Type: *Pompilus ignipennis* Cresson. Orig. desig.

**angusticeps* Townes. Tex.; Mexico.

Priocnemioides angusticeps Townes, 1957. U. S. Natl. Mus. Bul. 209: 60, pl. 2, fig. 17. ♂ ♀.

**aratus* Townes. U. and L. Sonoran Faunas, Idaho.

Priocnemioides aratus Townes, 1957. U. S. Natl. Mus. Bul. 209: 51. ♀ ♂.

**austrinus austrinus* (Banks). Tex., Kans., Colo.

Cryptocheilus austrinus Banks, 1917. Harvard Univ., Mus. Compar. Zool. Bul. 61: 102. ♀.

**austrinus fuscatus* Townes. Ala., Kans.

Priocnemioides austrinus fuscatus Townes, 1957. U. S. Natl. Mus. Bul. 209: 53. ♀.

fulvicornis (Cresson). Prey: *Lycosa avida* Walck.

magnus (Cresson). Gulf and Atlantic States, Tex. to N. Y.

texanus new subspecies. Delete entire entry. Replaced by *texanus atripennis*.

**texanus atripennis* Townes. La. (Opelousas).

Priocnemioides texanus atripennis Townes, 1957. U. S. Natl. Mus. Bul. 209: 56. ♂.

unifasciatus new subspecies. Delete entire entry. Replaced by *unifasciatus californicus*.

**unifasciatus californicus* Townes. Calif.; Baja Calif.

Priocnemoides unifasciatus californicus Townes, 1957. U. S. Natl. Mus. Bul. 209: 65, pl. 2, fig. 19. ♀ ♂.

unifasciatus cressoni (Banks). Prey: *Lycosa antelucana* Mont.

unifasciatus unifasciatus (Say). Prey: *Lycosa* sp.

Genus CRYPTOCEILUS Panzer, pp. 911-912

attenuatum Banks. Colo.; Mexico (Morelos and Jalisco). Prey: *Lycosa* sp., juv.

severini Banks. Mexico (Durango, Chihuahua, Nuevo Leon).

terminatum terminatum (Say). Mexico (Zacatecas and Teotihuacan).

DIPOGON subgenus DEUTERAGENIA Suster, pp. 912-913

Change *Sustra* to *Suster* in subgeneric heading.

**anomalus* Dreisbach. A subsp. of *papago* (Banks).

calipterus calipterus (Say). Md., D. C., Va., N. C., Ill.

**Dipogon femur-aureus* Dreisbach, 1953. Amer. Midland Nat. 49: 832. ♀. (Syn. by Townes, 1957. U. S. Natl. Mus. Bul. 209: 124.)

**calipterus duplicatus* Townes. Fla., Ga.

Dipogon (Deuteragenia) calipterus duplicatus Townes, 1957. U. S. Natl. Mus. Bul. 209: 125. ♀.

**femur-aureus* Dreisbach. Syn. of *calipterus calipterus* (Say).

**iracundus* Townes. Ariz. (Graham and Huachuca Mts.)

Dipogon (Deuteragenia) iracundus Townes, 1957. U. S. Natl. Mus. Bul. 209: 127. ♀.

**papago anomalus* Dreisbach, changed status. Canad., Transit. and U. Austr. Zone from Atlantic to 100° W. Prey: *Paraphidippus aurantius* (Luc.).

Dipogon anomalus Dreisbach, 1953. Amer. Midland Nat. 49: 834, figs. 4, 8. ♂. Reduced to a subsp. of *papago* (*teste* Townes, 1957. U. S. Natl. Mus. Bul. 209: 121).

**papago floridanus* Townes. Fla.

Dipogon (Deuteragenia) papago floridanus Townes, 1957. U. S. Natl. Mus. Bul. 209: 122. ♀ ♂.

papago papago (Banks), changed status. B. C.

Dipogon (Deuteragenia) papago (Banks). Reduced to subsp. rank (*teste* Townes, 1957. U. S. Natl. Mus. Bul. 209: 120).

sayi new subspecies. Delete entire entry. Replaced by *sayi nigrior*.

**sayi nigrior* Townes. Transit. Fauna, B. C., Oreg., Calif., Mont., Colo., N. Mex.

Dipogon (Deuteragenia) sayi nigrior Townes, 1957. U. S. Natl. Mus. Bul. 209: 130. ♀.

**thoracicus* Townes. N. Mex., Ariz.

Dipogon (Deuteragenia) thoracicus Townes, 1957. U. S. Natl. Mus. Bul. 209: 126. ♀.

DIPOGON subgenus DIPOGON Fox, p. 913

brevis brevis (Cresson), changed status. Carol. Fauna, Mass. to N. C.

Dipogon (Dipogon) brevis (Cresson). Reduced to subsp. rank (*teste* Townes, 1957. U. S. Natl. Mus. Bul. 209: 136).

**brevis ochreus* Townes. Md., S. C. Prey: *Phidippus* (?) sp., juv.

Dipogon (Dipogon) brevis ochreus Townes, 1957. U. S. Natl. Mus. Bul. 209: 137. ♀.

**brevis recalvus* Townes. Alleghan. Fauna, Que. and Ont. to Va. and Wis.

Dipogon (Dipogon) brevis recalvus Townes, 1957. U. S. Natl. Mus. Bul. 209: 134. ♀ ♂.

**graenicheri atratus* Townes. N. J., N. C.

Dipogon (Dipogon) graenicheri atratus Townes, 1957. U. S. Natl. Mus. Bul. 209: 139, pl. 2, fig. 29. ♀.

graenicheri graenicheri Banks, changed status.

Dipogon (Dipogon) graenicheri Banks. Reduced to subsp. rank (*teste* Townes, 1957. U. S. Natl. Mus. Bul. 209: 140).

**paludis* Townes. N. J. (Atsion).

Dipogon (Dipogon) paludis Townes, 1957. U. S. Natl. Mus. Bul. 209: 133. ♀.

**pygmaeus* Townes. Ala. (Prattsville).

Dipogon (Dipogon) pygmaeus Townes, 1957. U. S. Natl. Mus. Bul. 209: 132. ♀.

*PRIOCNEMIS subgenus SPHICTOSTETHUS Kohl

Sphictostethus Kohl, 1884. Zool.—Bot. Gesell. Wien, Verh. 34: 37, 47.

Type: *Pompilus gravesii* Haliday. Orig. desig.

Haploneura Kohl, 1884. Zool.—Bot. Gesell. Wien, Verh. 34: 37, 47. Preocc.

Type: *Haploneura apogona* Kohl. Orig. desig.

Haploneurion Kohl, 1885. Ent. Nachr. 11: 163. N. name.

Place in *Priocnemis* immediately after generic heading, p. 913. The only North American species is *pretiosa* Banks which was placed in subgenus *Priocnemis* in Catalog.

pretiosa Banks. Prey: *Lycosa* sp.

Priocnemis (Priocnemis) pretiosa Banks. Belongs to subg. *Sphictostethus* Kohl (*teste* Townes, 1957. U. S. Natl. Mus. Bul. 209: 82).

*PRIOCNEMIS subgenus PRIOCNEMISSUS Haupt

(= subg. *Priocnemis* of Catalog, p. 913)

Priocnemissus Haupt, 1949. Beitr. Tax. Zool. 1: 75.

Type: *Priocnemis "coriarius"* Dahlbom = *coriaceus* Dahlbom. Orig. desig.

The subgeneric name *Priocnemis* replaces *Myrmecosalius* Ashmead, p. 914, and all synonymy cited under subg. *Priocnemis* in the Catalog is transferred with the subgeneric heading.

minorata Banks. Prey: Spiders belonging to Agelenidae, Anyphaenidae, Clubionidae, Lycosidae.

Biology: Yoshimoto, 1954. Brooklyn Ent. Soc. Bul. 49: 130-138, 2 figs.

oregona Banks. Prey: *Brachythele* sp.

pretiosa Banks. Transf. to subg. *Sphictostethus* Kohl, *vide supra*.

PRIOCNEMIS subgenus PRIOCNEMIS Schipdt (= *Priocnemis* subg. *Myrmecosalius* Ashmead, p. 914)

**abbreviatus* Townes. Tex. (Ft. Davis).

Priocnemis (Priocnemis) abbreviatus Townes, 1957. U. S. Natl. Mus., Bul. 209: 102. ♀.

cornica (Say). Mexico (Puebla, Durango). Prey: Small Oxyopidae and Lycosidae. In citation of *atrata* Provancher, change 1888 to 1887. Remove *minuscula* (Banks) from syn.

germana (Cresson). Transf. *perfecta* Provancher from syn. to a valid sp. in *Minagenia*, p. 919.

minuscula (Banks). N. C., S. C., Tex., Kans., Ill.

Priocnemis (Myrmecosalius) cornica (Say) of Catalog, in part. *P. minuscula* (Banks) not a syn. (*teste* Townes, 1957. U. S. Natl. Mus. Bul. 209: 101).

navajo Banks. A subsp. of *notha* (Cresson).

**notha alaskensis* Townes. Alaska, N.W.T. Prey: *Paraphidippus marginatus* (Walck.).

Priocnemis (*Priocnemis*) *notha alaskensis* Townes, 1957. U. S. Natl. Mus. Bul. 209: 106. ♂ ♀.

notha navajo Banks, changed status.

Priocnemis (*Myrmecosalius*) *navajo* Banks. Reduced to subsp. rank (*teste* Townes, 1957. U. S. Natl. Mus. Bul. 209: 104).

Genus *CALICURGUS* Lepeletier, p. 915

hyalinatus alienatus (Smith). Prey: *Araneus* sp.

**hyalinatus excoctus* Townes. N. Mex., Ariz.; Mexico (Morelos, Durango, Jalisco).

Calicurgus hyalinatus excoctus Townes, 1957. U. S. Natl. Mus. Bul. 209: 115. ♀ ♂.

Genus *AUPLOPUS* Spinola, pp. 915-917

architectus architectus (Say), changed status. Transit. to Austrorip. Zones from Atlantic to Rocky Mts., and west of Rocky Mts. in Colo., N. Mex. and Ariz.; north Mexico. Prey: *Misumenops oblongus* (Keys.), *Phidippus audax* (Hentz), *Phidippus princeps* (Peck.).

Auplopus architectus (Say) of Catalog, in part. *A. metallicus* (Banks) is a valid subsp., not a syn. (*teste* Townes, 1957. U. S. Natl. Mus. Bul. 209: 164).

architectus metallicus (Banks), changed status. West of Rocky Mts., from B. C. to north Mexico. Prey: *Thiodina* sp.

Pseudagenia metallica Banks a subsp. of *architectus* (Say), not a syn. (*teste* Townes, 1957. U. S. Natl. Mus. Bul. 209: 162).

caerulescens antennalis (Banks). Syn. of *caerulescens subcorticalis* (Walsh).

caerulescens caerulescens (Dahlbom). N. C. and S. C. west to Kans. and Tex. Remove *floridanus* (Banks) from syn.

caerulescens floridanus (Banks), changed status. Austrorip. Fauna, Fla. to S. C.

Auplopus caerulescens caerulescens (Dahlbom) of Catalog, in part (*teste* Townes, 1957. U. S. Natl. Mus. Bul. 209: 161).

caerulescens subcorticalis (Walsh). Prey: *Phidippus audax* (Hentz). Remove *nigrella* (Banks) and *nanella* (Banks) from syn.

Pseudagenia antennalis Banks (*teste* Townes, 1957. U. S. Natl. Mus. Bul. 209: 159).

**inermis* Townes. Tex. (Helotes Cr.).

Auplopus inermis Townes, 1957. U. S. Natl. Mus. Bul. 209: 148. ♀.

mellipes mellipes (Say), changed status. Prey: *Phidippus* sp., *Pisaurina mira* (Walck.), *Herpyllus vasifer* (Walck.), *Marpissa undata* (DeG.).

Auplopus mellipes (Say). Reduced to subsp. rank (*teste* Townes, 1957. U. S. Natl. Mus. Bul. 209: 152).

Biology: Krombein, 1952. Ent. Soc. Wash. Proc. 54: 176-177.

**mellipes meridianus* Townes. Fla. (Paradise Key).

Auplopus mellipes meridianus Townes, 1957. U. S. Natl. Mus. Bul. 209: 154. ♀.

mellipes variitarsatus (Dalla Torre), changed status.

Auplopus variitarsatus (Dalla Torre). Reduced to subsp. rank (*teste* Townes, 1957. U. S. Natl. Mus. Bul. 209: 155).

**mollis* Townes. South. Tex.

Auplopus mollis Townes, 1957. U. S. Natl. Mus. Bul. 209: 157. ♀.

nigrellus (Banks), changed status. Most of south. Canada, U. S. and north. Mexico, but not known from northwest except Oreg., or from southeast. Prey: *Anyphaena fraterna* Bks., *Trachelas* sp.

Auplopus caerulescens subcorticalis (Walsh) of Catalog, in part. *A. nigrellus* (Banks) and *A. nanellus* Banks are not syns. but a valid sp., the former name having priority (*teste* Townes, 1957. U. S. Natl. Mus. Bul. 209: 165).

variitarsatus (Dalla Torre). A subsp. of *mellipes* (Say).

**variolarum* Townes. Tex. (Chisos Mts.).

Auplopus variolarum Townes, 1957. U. S. Natl. Mus. Bul. 209: 149. ♀.

AGENIELLA subgenus AMERAGENIA Banks, p. 917

**fasciata* Townes. Tex. (Brownsville); Mexico (Cordoba).

Ageniella (Ameragenia) fasciata Townes, 1957. U. S. Natl. Mus. Bul. 209: 217. ♀.

rufescens (Banks). Transf. to subg. *Priophanes* Banks, p. 919.

salti (Banks). Prey: *Clubiona* sp.

**striga* Townes. Tex. (Brownsville).

Ageniella (Ameragenia) striga Townes, 1957. U. S. Natl. Mus. Bul. 209: 216. ♀.

AGENIELLA subgenus LEUCOPHRUS Townes, p. 917

incita (Banks). Kans.

AGENIELLA subgenus AGENIELLA Banks, pp. 918-919

accepta (Cresson). Mexico (Coahuila).

conflicta Banks. Guatemala. Prey: Immature *Lycosa* spp.

euphorbiae (Viereck). Remove *submetallica* (Banks) from syn.

**evansi* Townes. Ariz., N. Mex.; Mexico (Teotihuacan).

Ageniella (Ageniella) evansi Townes, 1957. U. S. Natl. Mus. Bul. 209: 205. ♀.

**grisea* Townes. Idaho (Hollister, Wendell).

Ageniella (Ageniella) grisea Townes, 1957. U. S. Natl. Mus. Bul. 209: 195. ♀.

mintaka Brimley. Fla., Va., W. Va.

neglecta Banks. Mexico (Puebla, Zacatecas, Teotihuacan).

obscura delicata Banks. S. C.

obscura obscura Banks. Fla.

partita Banks. Mexico (Durango, Puebla, Nayarit, Zacatecas, Hidalgo).

Prey: *Gnaphosa sericata* (Koch), *Arctosa littoralis* (Hentz).
Parasite: *Ceropales hatoda* Brim.

**Alasagenia rubineus* Dreisbach, 1950. Ent. News. 61: 68. ♀. (Syn. by Townes, 1957. U. S. Natl. Mus. Bul. 209: 193).

**rubineus* Dreisbach. Syn. of *partita* Banks.

**seminole* Townes. Fla.

Ageniella (Ageniella) seminole Townes, 1957. U. S. Natl. Mus. Bul. 209: 196. ♀ ♂.

submetallica (Banks). Tex. (Austin).

Ageniella (Ageniella) euphorbiae (Viereck) of Catalog, in part *A. submetallica* not a syn. (*teste* Townes, 1957. U. S. Natl. Mus. Bul. 209: 205).

**vogeli* Townes. Carol. Fauna, Pa. to Ga., Kans. Prey: Immature *Lycosa avara* (Keys.)

Ageniella (Ageniella) vogeli Townes, 1957. U. S. Natl. Mus. Bul. 209: 202. ♀ ♂.

AGENIELLA subgenus PRIOPHANES Banks, p. 919

agenioides (Fox). Prey: Immature Salticid.

arcuata (Banks). Ariz., Tex.; Mexico (Nayarit, Durango, Zacatecas, Teotihuacan, Vera Cruz, Jalisco).

arizonica arizonica (Banks), changed status.

Ageniella (Priophanes) arizonica (Banks). Reduced to subsp. rank (*teste* Townes, 1957. U. S. Natl. Mus. Bul. 209: 179).

**arizonica concolor* Townes. Kans. (Manhattan).

Ageniella (Priophanes) arizonica concolor Townes, 1957. U. S. Natl. Mus. Bul. 209: 179. ♀ ♂.

faceta new subspecies. Delete entire entry. Replaced by *faceta ventralis*.

**faceta ventralis* Townes. Fla.; Mexico (Nuevo Leon).

Ageniella (Priophanes) faceta ventralis Townes, 1957. U. S. Natl. Mus. Bul. 209: 183. ♀ ♂.

**fuscipennis* Townes. Calif. Prey: *Oxyopes salticus* Hentz.

Ageniella (Priophanes) fuscipennis Townes, 1957. U. S. Natl. Mus. Bul. 209: 189. ♀.

placita new subspecies. Delete entire entry. Replaced by *placita sonorensis*.

**placita sonorensis* Townes. Calif.; northwest. Mexico.

Ageniella (Priophanes) placita sonorensis Townes, 1957. U. S. Natl. Mus. Bul. 209: 185. ♀.

rufescens (Banks).

Ageniella (Ameragenia) rufescens (Banks). Transf. from subg. *Ameragenia* (*teste* Townes, 1957. U. S. Natl. Mus. Bul. 209: 180).

*Genus PRIOCNEMELLA Banks

Priocnemella Banks, 1925. Harvard Univ., Mus. Compar. Zool. Bul. 67: 337.

Type: *Priocnemis (Priocnemella) fairchildi* Banks. Desig. by Pate, 1946.

Eragenia Banks, 1946. Harvard Univ., Mus. Compar. Zool. Bul. 96: 421.

Type: *Eragenia infelix* Banks. Orig. desig.

Place in Macromerini after *Ageniella* subg. *Priophanes* Banks, p. 919.

**tabascoensis* (Cameron). South Tex. to Ecuador.

Pseudagenia tabascoensis Cameron, 1891. Biol. Cent.—Amer., Hym., v. 3, p. 172. ♂.

Ageniella rufula Banks, 1945. Bol. Ent. Venezolana 4: 117. ♀.

Subfamily CEROPALINAE

Revision: Townes, 1957. U. S. Natl. Mus. Bul. 209: 221-272, 32 figs.

*Tribe MINAGENIINI

This tribal heading should be inserted above the genus *Minagenia* Banks, p. 919.

Genus MINAGENIA Banks, p. 919

In citation of *Nannochilus* Banks, change 1934 to 1944.

clypeata (Banks). Md. to N. C., Mich.

**Minagenia shappirioi* Dreisbach, 1953. Amer. Midland Nat. 49: 839, figs. 1, 5. ♂. Syn. by Townes, 1957. U. S. Natl. Mus. Bul. 209: 231).

congrua (Cresson). Alleghan. Fauna, Que. to Va., W. Va., Mich.

Agenia rufigastra Provancher (syn. by Townes, 1957. U. S. Natl. Mus. Bul. 209: 227).

**Minagenia semirufa* Dreisbach, 1953. Amer. Midland Nat. 49: 841, figs. 10, 14. ♂. (Syn. by Townes, *loc. cit. supra*.)

?**Minagenia michiganensis* Dreisbach, 1953. Amer. Midland Nat. 49: 842, figs. 9, 12. ♂. (Syn. by Townes, *loc. cit. supra*.)

julia (Brimley). Atlantic and Gulf Coast States, Md. to Tex.

***lata** Townes. S. C. (McClellanville, Columbia).

Minagenia lata Townes, 1957. U. S. Natl. Mus. Bul. 209: 230, pl. 3, fig. 36; pl. 4, fig. 44. ♂.

***lutea** Dreisbach. Okla. (Vinita).

Minagenia lutea Dreisbach, 1955. Ent. News. 66, 106. ♀

***major** Townes. D. C., Ga.

Minagenia major Townes, 1957. U. S. Natl. Mus. Bul. 209: 229. ♂ ♀.

***michiganensis** Dreisbach. Probable syn. of **congrua** (Cresson).

***montisdorsa** Dreisbach. Ohio, Ga., La., Tex.; Mexico (Baja Calif., Zacatecas).

Minagenia montisdorsa Dreisbach, 1953. Amer. Midland Nat. 49: 840, figs. 3, 7. ♂.

osoria (Banks). W. Va., Ga., Tex. Prey: Immature Lycosid. In orig. cit. change ♂ to ♂ ♀.

perfecta (Provancher). Que. (Cap Rouge). Trans. from syn. of *Priocnemis* (*Priocnemis*) **germana** (Cresson), p. 914 (teste Townes, 1957. U. S. Natl. Mus. Bul. 209: 235).

rufigastra (Provancher). Syn. of **congrua** (Cresson). In orig. cit. change 1889 to 1887.

***semirufa** Dreisbach. Syn. of **congrua** (Cresson).

***shappirioi** Dreisbach. Syn. of **clypeata** (Banks).

*Tribe NOTOCYPHINI

This tribal heading should be inserted above the genus **Notocyphus** Smith, p. 920.

Genus NOTOCYPHUS Smith, p. 920

***dorsalis arizonicus** Townes. L. Sonoran Fauna of Ariz. and Calif.

Notocyphus dorsalis arizonicus Townes, 1957. U. S. Natl. Mus. Bul. 209: 223. ♂ ♀.

dorsalis dorsalis Cresson. Tex.; Mexico (Chihuahua, Durango).

Notocyphus plagiatus dorsalis Cresson of Catalog. *Notocyphus plagiatus* Smith is specifically distinct from **dorsalis**, and occurs in Mexico (teste Townes, 1957. U. S. Natl. Mus. Bul. 209:224).

plagiatus dorsalis Cresson. Replaced by **dorsalis dorsalis** Cresson.

plagiatus new subspecies. Delete entire entry.

*Tribe CEROPALINI

This tribal heading should be inserted above the genus **Ceropales** Latreille, p. 920.

Genus CEROPALES Latreille, pp. 920-921

bipunctata tibialis Banks. N. C. to Fla.

? **Ceropales floridensis** Dreisbach (syn. by Townes, 1957. U. S. Natl. Mus. Bul. 209: 261).

brevicornis Patton. La., Tex., N. Mex. north to Pa. and Alta., Wash.

Ceropales fulvipes Cresson of Catalog, in part. *C. brevicornis* not a syn. (teste Townes, 1957. U. S. Natl. Mus. Bul. 209: 268).

cubensis albopicta Cresson. South. Tex. to Panama, Baja Calif. Typical *cubensis* Cresson occurs in the West Indies.

Ceropales cubensis Cresson of Catalog, in part (teste Townes, 1957. U. S. Natl. Mus. Bul. 209: 250).

***elegans aquilonia** Townes. Alta., Minn.

Ceropales elegans aquilonia Townes, 1957. U. S. Natl. Mus. Bul. 209: 256. ♂.

elegans quaintancei Viereck. Md. to Fla., Ill., Kans.

femoralis Cresson. Va. to Kans., south to Panama. Remove *hatoda* Brimley from syn.

floridensis Dreisbach. Probable syn. of *bipunctata tibialis* Banks.

fraterna fraterna Smith. Replaced by *maculata fraterna* Smith. In orig. cit. of *minima* Provancher, change 1889 to 1887.

fraterna stretchii Fox. Replaced by *maculata stretchii* Fox.

fulvipes Cresson. Tex. Remove *brevicornis* Patton from syn.

hatoda Brimley. N. Y. to N. C., Minn. Host: *Ageniella* (*Ageniella*) *partita* Bks.

Ceropales femoralis Cresson of Catalog, in part. *C. hatoda* not a syn. (*teste* Townes, 1957. U. S. Natl. Mus. Bul. 209: 267).

longipes Smith. N. J. to Ga., Mo.

**maculata caenosa* Townes. Calif. (Sierra Nevada Mts.).

Ceropales maculata caenosa Townes, 1957. U. S. Natl. Mus. Bul. 209: 242. ♀ ♂.

maculata fraterna Smith. Transcont., chiefly in Canad. and Transit. Zones, but replaced in far West by *maculata stretchii* Fox and *maculata caenosa* Townes, and in the Alberta-Dakotas area by *maculata rhodomerus* Townes. Typical *maculata* (Fabricius) is European.

Ceropales fraterna fraterna Smith of Catalog (*teste* Townes, 1957. U. S. Natl. Mus. Bul. 209: 244).

**maculata rhodomerus* Townes. South. Alta. and Mont. to N. and S. Dak., and occasional individuals from Minn., Mich., N. Y., Mass. in range of *maculata fraterna* Smith.

Ceropales maculata rhodomerus Townes, 1957. U. S. Natl. Mus. Bul. 209: 243. ♀ ♂.

maculata stretchii Fox. Calif. east of Sierra Nevada Mts., north to B. C. and east to Idaho, north. Nev., and Utah.

Ceropales fraterna stretchii Fox of Catalog (*teste* Townes, 1957. U. S. Natl. Mus. Bul. 209: 247).

neomexicana Rohwer. Mexico (Zacatecas, Durango).

nigripes Cresson. Mexico (Durango, Zacatecas).

**pacifica* Townes. Oreg., Calif.

Ceropales pacifica Townes, 1957. U. S. Natl. Mus. Bul. 209: 264. ♂ ♀.

robinsonii robinsonii Cresson, changed status.

Ceropales robinsonii Cresson. Reduced to subsp. rank (*teste* Townes, 1957. U. S. Natl. Mus. Bul. 209: 253).

robinsonii stigmatica Banks, changed status. Kans.

Ceropales stigmatica Banks. Reduced to subsp. rank (*teste* Townes, 1957. U. S. Natl. Mus. Bul. 209: 255).

**rugata* Townes. Oreg., Calif., Wyo., Utah, Gulf and South Atlantic States; Mexico (Zacatecas, Teotihuacan).

Ceropales rugata Townes, 1957. U. S. Natl. Mus. Bul. 209: 264. ♂ ♀.

stigmatica Banks. A subsp. of *robinsonii* Cresson.

Subfamily POMPILINAE

Tribe APORINI

APORUS subgenus APORUS Spinola, pp. 921-922

hermes Bradley. Syn. of *niger* (Cresson).

luxus luxus (Banks). Ariz.

niger (Cresson).

Aporus (Aporus) hermes Bradley (syn. by Evans, 1956. Ent. News 67:6).

APORUS subgenus PLECTRAPORUS Bradley, p. 922

hirsutus (Banks). Ariz.

Genus ALLAPORUS Banks, p. 922

amabilis Evans. Tex.; Mexico (Zacatecas, Durango).

**aquilonaris* (Dreisbach). Syn. of *rufiventris* (Cresson).

rufiventris (Cresson).

**Euplaniceps aquilonaris* Dreisbach, 1952. Ent. News 63:95, 3 figs.
♂. (Syn. by Evans, 1956. Ent. News 67:6.)

Genus PSORTHASPIIS Banks, p. 923

Taxonomy: Evans, 1954. Amer. Mus. Novitates 1662 (key to males, and all-black females).

**arizonensis* Dreisbach. A subsp. of *macronotum* (Kohl).

conocephala Bradley. A subsp. of *portiae* (Rohwer).

cressoni Bradley. A subsp. of *macronotum* (Kohl).

legata (Cresson). Fla., Kans.

levis Bradley. Syn. of *macronotum cressoni* Bradley.

**macronotum arizonensis* Dreisbach. South. Ariz. Typical *macronotum* (Kohl) is Mexican.

Psorthaspis arizonensis Dreisbach, 1950. Brooklyn Ent. Soc. Bul. 45: 119.
♀. Reduced to subsp. rank (*teste* Evans, 1954. Amer. Mus. Novitates 1662: 10).

macronotum cressoni Bradley, changed status. Mexico (Nuevo Leon).

Psorthaspis cressoni Bradley. Reduced to subsp. rank (*teste* Evans, 1954. Amer. Mus. Novitates 1662: 11).

Psorthaspis levis Bradley (syn. by Evans, *loc. cit. supra*).

mariae (Cresson).

Taxonomy: Krombein, 1956. Ent. Soc. Wash. Proc. 58: 155.

morosa Bradley. Syn. of *planata* (Fox).

planata (Fox). Mexico (Baja Calif.).

Psorthaspis morosa Bradley (syn. by Evans, 1954. Amer. Mus. Novitates 1662: 12).

portiae conocephala Bradley, changed status. Mexico (Nuevo Leon).

Psorthaspis conocephala Bradley. Reduced to subsp. rank (*teste* Evans, 1954. Amer. Mus. Novitates 1662: 13).

portiae portiae (Rohwer), changed status. Mexico (Chihuahua, Durango, Zacatecas).

Psorthaspis portiae (Rohwer). Reduced to subsp. rank (*teste* Evans, 1954. Amer. Mus. Novitates 1662:12).

***Genus AULOCOSTETHUS Ashmead**

Aulocostethus Ashmead, 1902. Canad. Ent. 54: 133.

Type: *Aulocostethus bifasciatus* Ashmead. By monotypy and orig. desig.

Place in Aporini after *Psorthaspis* Banks, p. 923.

**pulcherrimus* Evans. Fla. (Royal Palm Hammock in Everglades Natl. Park).

Aulocostethus pulcherrimus Evans, 1955. Ent. News 66: 150. ♀.

Tribe POMPILINI

Revision: Evans, 1951. Amer. Ent. Soc. Trans. 76: 207-361. *Op. cit.*, 77: 203-340.

Genus TASTIOTENIA Evans, p. 924

festiva Evans. Calif. (Borego), Ariz.

Taxonomy: Evans, 1954. Pan-Pacific Ent. 30: 103. ♂.

Genus CHALCOCHARES Banks, p. 924

hirsutifemur (Banks). Tex.

Genus EVAGETES Lepeletier, pp. 924-925

**Streptosella* Dreisbach, 1950. Amer. Midland Nat. 43: 570 (syn. by Evans, 1951. Amer. Ent. Soc. Trans. 77: 310).

Type: (*Streptosella michiganensis* Dreisbach, a lapsus for *steyskali* Dreisbach) = *Evagetes crassicornis crassicornis* (Shuckard). Orig. desig.

**albertensis* (Dreisbach). Syn. of *crassicornis crassicornis* (Shuckard).

**asignus* Dreisbach. Mass. south to Fla., west to Tex., Mich., Iowa, Kans., Colo.

Evagetes asignus Dreisbach, 1956. Ent. News 67: 147, 2 figs. ♂ ♀.

crassicornis crassicornis (Shuckard).

**Streptosella michiganensis* Dreisbach, 1950. Amer. Midland Nat. 43: 571. Nom. nud., a lapsus for *steyskali*.

**Streptosella steyskali* Dreisbach, 1950. Amer. Midland Nat. 43: 571, figs. 1, 2. ♂. (Syn. by Evans, 1951. Amer. Ent. Soc. Trans. 77: 311).

**Streptosella albertensis* Dreisbach, 1950. Amer. Midland Nat. 43: 572, figs. 3, 4. ♂. (Syn. by Evans, *loc. cit. supra*).

**Streptosella stricklandi* Dreisbach, 1950. Amer. Midland Nat. 43: 574, figs. 5, 6. ♂. (Syn. by Evans, *loc. cit. supra*).

hyacinthinus (Cresson). Delete *mohave* (Banks) and *quadriscopinosus* (Banks) from syn.

**michiganensis* (Dreisbach). Nom. nud. under *crassicornis crassicornis* (Shuckard).

mohave (Banks). N. Y. to Fla., west to Ariz., Kans. Host: *Anoplius* (*Arachnophroctonus*) *apiculatus autumnalis* (Bks.) and *A. (Ar.) americanus juxtus* (Cr.).

Sophropompilus quadriscopinosus Banks. Preocc. in *Evagetes* by *Pompilus quadriscopinosus* Kohl.

Sophropompilus mohave Banks. A valid sp., not a syn. of *hyacinthinus* (Cresson) (*teste* Krombein, 1953. Wasmann Jour. Biol. 10: 320.)

Biology: Evans, Lin and Yoshimoto, 1953. N. Y. Ent. Soc. Jour. 61: 72-77.

padrinus minusculus (Banks). Fla.

parvus (Cresson). N. W. T.

**steyskali* (Dreisbach). Syn. of *crassicornis crassicornis* (Shuckard).

**stricklandi* (Dreisbach). Syn. of *crassicornis crassicornis* (Shuckard).

AGENIOIDEUS subgenus AGENIOIDEUS Ashmead, p. 925

humilis (Cresson). Prey: *Acacesia hamata* (Hentz).

Biology: Krombein, 1953. Brooklyn Ent. Soc. Bul. 48: 113-115.

AGENIOIDEUS subgenus GYMNOCHARES Banks, p. 925

birkmanni (Banks). N. C., Md., W. Va.

Genus SERICOPOMPILUS Howard, p. 926

angustatus (Cresson). Fla., Wyo.

apicalis (Say). Prey: Spiders belonging to Salticidae, Thomisidae, Araneidae, Oxyopidae, and Anyphaenidae.

Biology: Krombein, 1953. Wasmann Jour. Biol. 10: 262-264.

neotropicalis (Cameron). Ark., Kans.

Genus EPISYRON Schiodte, pp. 926-927

biguttatus biguttatus (Fabricius). Prey: Epeiridae.

Biology: Krombein, 1953. Wasmann Jour. Biol. 10: 264-266.—

Krombein, 1953. Ent. Soc. Wash. Proc. 55: 115-116.

oregon Evans. Colo.

posterus (Fox). Prey: *Eustala anastera* (Walck.), *Eustala cepina* (Walck.), *Araneus* sp., *Neoscona* sp., *Argiope aurantia* Luc.

Biology: Krombein, 1953. Wasmann Jour. Biol. 10: 266-268.—

Krombein, 1955. Ent. Soc. Wash. Proc. 57: 149-150.

quinquenotatus quinquenotatus (Say). Prey: *Neoscona* sp.

snowi (Viereck). Prey: *Neoscona benjamina* (Walck.), *Cyclosa conica* (Pall.).

Biology: Krombein, 1953. Wasmann Jour. Biol. 10: 268-269.—

Krombein, 1953. Ent. Soc. Wash. Proc. 55: 116.

Genus POECILOPOMPILUS Howard, pp. 927-928

algidus coquilletti (Provancher). In orig. cit. of *coquilletti* change 1889 to 1887.

interruptus interruptus (Say). Prey: *Neoscona benjamina* (Walck.), *Argiope aurantia* Luc., *Epeira foliata* (Fourcr.).

Biology: Krombein, 1953. Wasmann Jour. Biol. 10: 269-272.—Strandtmann, 1953. Kans. Ent. Soc. Jour. 26: 45-46.

Genus TACHYPOMPILUS Ashmead, p. 928

ferrugineus burrus (Cresson). Nests in loose dry soil beneath house. Prey: *Lycosa rabida* (Walck.), *L. antelucana* Mont.

Biology: Strandtmann, 1953. Kans. Ent. Soc. Jour. 26: 46-48, fig. 1.

ferrugineus ferrugineus (Say). Prey: *Lycosa* spp.

torridus torridus (Smith). Utah.

ANOPLIUS subgenus LOPHOPOMPILUS Radoszkowski, pp. 928-929

atrox (Dahlbom). Prey: *Dolomedes tenebrosus* Hentz.

cleora (Banks). Prey: *Arctosa littoralis* (Hentz).

ANOPLIUS subgenus NOTIOCHARES Banks, p. 929

amethystinus atramentarius (Dahlbom). Prey: *Lycosa rabida* Walck., and *Arctosa littoralis* (Hentz).

ANOPLIUS subgenus ARACHNOPHROCTONUS Howard, pp. 930-931

americanus juxtus (Cresson). Prey: *Arctosa littoralis* (Hentz), *Peucetia viridans* Hentz, and *Schizocosa crassipes* (Walck.). Parasite: *Evagetes mohave* (Bks.).

americanus trifasciatus (Beauvois). N. C.

apiculatus autumnalis (Banks). Prey: *Arctosa littoralis* (Hentz). Parasite: *Evagetes mohave* (Bks.).

Biology: Evans, Lin and Yoshimoto, 1953. N. Y. Ent. Soc. Jour. 61: 61-78.

apiculatus pretiosus (Banks). Prey: *Arctosa littoralis* (Hentz), *Lycosa helluo* (Walck.).

Biology: Krombein, 1953. Wasmann Jour. Biol. 10: 272-275.

***gaigei** (Dreisbach). Syn. of *xerophilus* Evans.

- marginalis** (Banks). Prey: *Geolycosa pikei* (Marx).
Biology: Krombein, 1953. Wasmann Jour. Biol. 10: 275-276.—
Krombein, 1953. Ent. Soc. Wash. Proc. 55: 116-117.
- ***occidentalis** (Dreischbach), n. comb. Calif. (Redwood City).
Arachnophroctonus occidentalis Dreischbach, 1954. Amer. Midland Nat. 52: 437, figs. 13, 17. ♂.
- semirufus** (Cresson). N. Mex. Prey: *Lycosa* and *Schizocosa* spp.
Biology: Krombein, 1953. Wasmann Jour. Biol. 10: 277-280.—Evans, 1953. Syst. Zool. 2: 168-169.
- xerophilus** Evans. Tex.
**Arachnophroctonus gaigei* Dreischbach, 1954. Amer. Midland Nat. 52: 438, figs. 4, 11. ♂. (Syn. by Evans, 1956. Ent. News 67: 7.)

ANOPLIUS subgenus POMPILINUS Ashmead, pp. 931-932

- ***basirufus** (Dreischbach). Syn. of **marginatus** (Say).
- californiae** Evans. Mexico (Sonora, Baja Calif.).
- clystera** (Banks). Mexico (Chihuahua, Jalisco).
**Pompilinus submarginatus* Dreischbach, 1952. Amer. Midland Nat. 48: 146, figs. 14, 17. ♂. (Syn. by Evans, 1956. Ent. News 67: 7).
- cylindricus** (Cresson). Calif., Fla., Mexico (Chihuahua).
- estellina** (Banks). Mexico, Guatemala.
**Pompilinus utahensis* Dreischbach, 1952. Amer. Midland Nat. 48: 145, figs. 15, 16. ♂. (Syn. by Evans, 1956. Ent. News 67: 7.)
**Pompilinus minutus* Dreischbach, 1952. Amer. Midland Nat. 48: 147, figs. 7, 8. ♂. (Syn. by Evans, *loc. cit. supra.*)
- fraternus** (Banks). Mexico (Tamaulipas). Prey: Lycosid and Salticid spiders.
Biology: Krombein and Evans, 1954. Ent. Soc. Wash. Proc. 56: 231.—
Evans, Krombein, and Yoshimoto, 1955. Brooklyn Ent. Soc. Bul. 50: 77-84, 3 figs.
- grandiflexionis** Evans. Mexico (Durango, Zacatecas).
- insolens** (Banks). Mexico (south to Michoacan).
- krombeini** Evans. Prey: *Schizocosa* sp.
Biology: Krombein, 1953. Ent. Soc. Wash. Proc. 55: 117-118.
- marginatus** (Say).
**Pompilinus basirufus* Dreischbach, 1952. Amer. Midland Nat. 48: 149, figs. 9, 10. ♂ (♀ misdet.) (Syn. by Evans, 1956. Ent. News 67: 8.)
**Pompilinus basirufous* (!) Dreischbach, 1952. *Op. cit.*, p. 158.
Biology: Krombein, 1953. Wasmann Jour. Biol. 10: 280-281.
- ***minutus** (Dreischbach). Syn. of **estellina** (Banks).
- ***rectangularis gillaspyi** Evans. Tex., N. C., N. J. in Austrorip. Fauna.
Anoplius (Pompilinus) rectangularis gillaspyi Evans, 1951. Amer. Ent. Soc. Trans. 76: 310, fig. 101. ♂.
- rectangularis rectangularis** (Dreischbach), changed status. Transit. and U. Austr. Zones, Mass. to Minn., south to Colo., Kans., Ohio and N. C.
Anoplius (Pompilinus) rectangularis (Dreischbach). Reduced to subsp. rank (*teste* Evans, 1951. Amer. Ent. Soc. Trans. 76: 309, figs. 100, 131).
- ***shappirioi** (Dreischbach), n. comb. D. C.
Pompilinus shappirioi Dreischbach, 1952. Amer. Midland Nat. 48: 148, figs. 5, 6. ♂.
- splendens** (Dreischbach). Fla.; Mexico (Chihuahua, Durango).
- stenotus** (Banks). South. Ala. Prey: *Lycosa* sp.
Biology: Krombein, 1955. Ent. Soc. Wash. Proc. 57: 230.

subcylindricus (Banks). Ariz.; Mexico (south to Michoacan and Puebla).
Prey: *Micaria* sp., *Xysticus banksi* Bry.

***submarginatus** (Dreisbach). Syn. of **clystera** (Banks).

texanus (Dreisbach). Mexico (Morelos).

***townesi** Evans. Alleghan. Fauna, N. H. west to Man., Conn. to Fla.

Anoplus (Pompilius) townesi Evans, 1951. Amer. Ent. Soc. Trans.
76: 313, fig. 102. ♂.

***utahensis** (Dreisbach). Syn. of **estellina** (Banks).

ANOPLIUS subgenus **ANOPLIUS** Dufour, pp. 932-933

***banksi** Dreisbach. Syn. of **nigerrimus** (Scopoli).

***basalis** Dreisbach. Syn. of **piliventris** (Morawitz).

depressipes Banks. Tex., Fla.

***elongatus** Dreisbach. Syn. of **ventralis ventralis** (Banks).

***hispidulus** Dreisbach. Ill., Mich., N. Y. Conn., Md.

Anoplus hispidulus Dreisbach, 1950. Amer. Midland Nat. 43: 577, figs.
25, 26. ♂.

illinoensis (Robertson). Utah.

imbellis Banks.

Anoplus imbellis* var. **major Dreisbach, 1950. Amer. Midland Nat.
43: 581, figs. 20, 24. ♂. (Syn. by Evans, 1951. Amer. Ent. Soc.
Trans. 76: 348, figs. 112, 142, 167.)

**Anoplus subimbellis* Dreisbach, 1952. Amer. Midland Nat. 48: 155,
figs. 23, 25. ♂. (Syn. by Evans, 1956. Ent. News 67: 8.)

***imbellis** var. **major** Dreisbach. Syn. of **imbellis** Banks.

ithaca (Banks). Prey: *Arctosa littoralis* (Hentz) and *Pardosa milvina*
(Hentz).

nigerrimus (Scopoli).

**Anoplus banksi* Dreisbach, 1950. Amer. Midland Nat. 43: 579, figs.
13, 14. ♂. (Syn. by Evans, 1951. Amer. Ent. Soc. Trans.
76: 313, figs. 106, 140, 163.)

***piliventris** (Morawitz). Holarctic; transcont. in Canad. Zone, south to
N. B., Vt., Man. and in mts. to N. Mex. and Calif.

**Pompilus piliventris* Morawitz, 1889. Hor. Soc. Ent. Ross. 23: 122. ♂.

**Anoplus basalis* Dreisbach, 1950. Amer. Midland Nat. 43: 578, figs.
9, 10. ♂. (Syn. by Evans, 1956. Ent. News 67: 9.)

***subimbellis** Dreisbach. Syn. of **imbellis** Banks.

***subtarsatus** Dreisbach. Syn. of **ventralis ventralis** (Banks).

ventralis tarsatus (Banks). Prey: *Tarentula kochi* Keys.

ventralis ventralis (Banks).

**Anoplus elongatus* Dreisbach, 1950. Amer. Midland Nat. 43: 576, figs.
11, 12. ♂. (Syn. by Evans, 1951. Amer. Ent. Soc. Trans.
76: 353, figs. 114, 141, 147, 164.)

**Anoplus subtarsatus* Dreisbach, 1950. Amer. Midland Nat. 43: 578,
figs. 18, 22. ♂. (Syn. by Evans, loc. cit. supra.)

POMPILUS subgenus **POMPILUS** Fabricius, p. 933

Delete; the typical subgenus does not occur in North America. **P. expulsus** Schulz, placed in this subgenus in the Catalog, has been transferred to the subgenus **Xerochaeres** Evans, p. 934.

POMPILUS subgenus **HESPEROPOMPILUS** Evans, pp. 933-934

***boharti** Evans. Calif. (Borego).

Pompilus (Hesperopompilus) boharti Evans, 1951. Amer. Ent. Soc.
Trans. 77: 216, figs. 176, 204. ♂.

**evagetoides* Evans. Syn. of *jacintoensis* Evans.

jacintoensis Evans. Ariz. Change ♀ ♂ to ♀ (♂ misdet.).

**Pompilus (Hesperopompilus) evagetoides* Evans, 1951. Amer. Ent. Soc. Trans. 77: 217. ♂. (Syn. by Evans, 1956. Ent. News 67: 9.)

***POMPILUS subgenus XEROCHARES Evans**

Pompilus subg. *Xerochares* Evans, 1951. Amer. Ent. Soc. Trans. 77: 218.

Type: (*Pompilus connexus* Fox) = *Pompilus expulsus* Schulz. By monotypy and orig. desig.

Place in Pompilini after subgenus *Hesperopompilus* Evans, p. 934. Contains only *P. expulsus* Schulz, placed in subgenus *Pompilus* in Catalog.

***POMPILUS subgenus PERISSOPOMPILUS Evans**

Pompilus subgenus *Perissopompilus* Evans, 1951. Amer. Ent. Soc. Trans. 77: 222.

Type: *Pompilus (Ammosphex) phoenix* Evans. Orig. desig.

Place in Pompilini after subgenus *Xerochares* Evans, p. 934.

**perfasciatus* Evans. Calif. (Riverside Co.).

Pompilus (Perissopompilus) perfasciatus Evans, 1951. Amer. Ent. Soc. Trans. 77: 225. ♀.

phoenix Evans. Mexico (Hidalgo, Mexico, Puebla). Transf. from subgenus *Ammosphex* Wilcke, p. 934 (*teste* Evans, 1951. Amer. Ent. Soc. Trans. 77: 223).

POMPILUS subgenus AMMOSPHEX Wilcke, p. 934

angularis angularis (Banks), changed status. The other subsp., *a. volcanicus* Evans, is Mexican.

Pompilus (Ammosphex) angularis (Banks). Reduced to subsp. rank (*teste* Evans, 1953. Ent. Soc. Amer. Ann. 46: 538).

anomalus anomalus (Dreisbach), changed status. U. Sonor. and Transit. Faunas, Alta. to Ariz., Calif.; Baja Calif. The other subsp. *a. durangoanus* Evans, is Mexican.

Pompilus (Ammosphex) parvulus (Banks) in part, of Catalog (*teste* Evans, 1951. Amer. Ent. Soc. Trans. 77: 237, figs. 180, 210).

Pompilus (Ammosphex) anomalus (Dreisbach). Reduced to subsp. rank (*teste* Evans, 1953. Ent. Soc. Amer. Ann. 46: 538).

**Anopompilinus arnaudi* Dreisbach, 1952. Amer. Midland Nat., 48: 153, figs. 1, 2. ♂. (Syn. by Evans, 1956. Ent. News 67: 9.)

**arnaudi* (Dreisbach). Syn. of *anomalus* (Dreisbach).

dakota (Dreisbach). Transit. Zone, Mont. and N. Dak. south to Ariz. and N. Mex.

Anopompilinus dakota Dreisbach, 1950. Amer. Midland Nat. 42: 728, figs. 9, 10. ♂. (Erroneously placed in syn. of *michiganensis* Dreisbach in Catalog.)

imbecillus imbecillus (Banks), changed status. Transcont. in Transit. Zone except Pacific States.

Pompilus (Ammosphex) imbecillus (Banks). Reduced to subsp. rank (*teste* Evans, 1951. Amer. Ent. Soc. Trans. 77: 247, figs. 182, 213, 235).

**imbecillus ojbwae* Evans. Canad. and Hudson. Zones, N. B. and B. C., north to N. W. T.

Pompilus (Ammosphex) imbecillus ojbwae Evans, 1951. Amer. Ent. Soc. Trans. 77: 249. ♀ ♂.

michiganensis (Dreisbach). Delete *dakota* (Dreisbach) from syn., and change range to Hudson., Canad., and Transit. Zones from N. B., N. W. T., Yukon, south to Alta., Minn., N. Y., and in mts. to Colo., and Ga.

occidentalis (Dreisbach). Mexico (Puebla, Mexico).

parvulus parvulus (Banks), changed status. The other subsp., *p. tepahuuanus* Evans and *p. otomi* Evans, are Mexican.

Pompilus (Ammosphex) anomalus (Dreisbach), a valid species. Remove from syn. (*teste* Evans, 1951. Amer. Ent. Soc. Trans. 77: 237).

Pompilus (Ammosphex) parvulus (Banks). Reduced to subsp. rank (*teste* Evans, 1953. Ent. Soc. Amer. Ann. 46: 538).

phoenix Evans. Transf. to subgenus ****Perissopompilus*** Evans.

****silvivirus*** Evans. Transit. Zone forests, Tex., N. Mex., Colo., Ariz., Calif.

Pompilus (Ammosphex) solonus silvivirus Evans, 1951. Amer. Ent. Soc. Trans. 77: 241, figs. 184, 218. ♂ ♀. Raised to sp. rank (*teste* H. E. Evans, *in litt.*).

solonus solonus (Banks), changed status. The other subsp., *s. teotihuacanus* Evans, is Mexican.

Pompilus (Ammosphex) solonus (Banks). Reduced to subsp. rank (*teste* Evans, 1953. Ent. Soc. Amer. Ann. 46: 538).

POMPILUS subgenus ARACHNOSPILA Kincaid, pp. 934-935

arctus Cresson.

****Pycnopompilus siouxensis*** Dreisbach, 1950. Amer. Midland Nat. 43: 592, figs. 46, 47. ♂. (Syn. by Evans, 1951. Amer. Ent. Soc. Trans. 77: 258, figs. 191, 221.)

****Pycnopompilus sculleni*** Dreisbach, 1950. Amer. Midland Nat. 43: 594, figs. 33, 37. ♂. (Syn. by Evans, *loc. cit. supra.*)

****Pycnopompilus parvus*** Dreisbach, 1952. Amer. Midland Nat. 48: 152, figs. 3, 4. ♂. (Syn. by Evans, 1956. Ent. News. 67: 10.)

****parvus*** (Dreisbach). Syn. of ***arctus*** Cresson.

scelestus Cresson.

****Pycnopompilus subscelestus*** Dreisbach, 1950. Amer. Midland Nat. 43: 591, figs. 39, 40. ♂. (Syn. by Evans, 1951. Amer. Ent. Soc. Trans. 77: 262, figs. 190, 219.)

****sculleni*** (Dreisbach). Syn. of ***arctus*** Cresson.

****siouxensis*** (Dreisbach). Syn. of ***arctus*** Cresson.

****subscelestus*** (Dreisbach). Syn. of ***scelestus*** Cresson.

POMPILUS subgenus ANOPLOCHARES Banks, p. 935

apicatus Provancher. Fla.

similaris (Banks). Fla.

Genus APORINELLUS Banks, pp. 935-936

banksi Bequaert. Syn. of ***taeniatus taeniatus*** (Kohl.)

****bridwelli*** Evans. Kans., Tex., Ariz., Calif., Oreg.

Aporinellus bridwelli Evans, 1951. Amer. Ent. Soc. Trans. 77: 291, figs. 197, 265. ♂.

completus Banks.

Aporinellus basalis Banks (erroneously placed in syn. of ***fasciatus*** (Smith) in Catalog, *teste* Evans, 1951. Amer. Ent. Soc. Trans. 77: 293).

fasciatus (Smith), changed status.

Aporinellus fasciatus (Smith) of Catalog, in part. (***Aporinellus basalis*** Banks is a syn. of ***completus*** Banks, *teste* Evans, 1951. Amer. Ent. Soc. Trans. 77: 293.)

rufus Banks. A subsp. of ***taeniatus*** (Kohl.).

semirufus Banks. A subsp. of ***taeniatus*** (Kohl.).

****sinuatus*** Evans. L. and U. Austr. Zones, north to N. J., Kans., Mont. and B. C.

Aporinellus sinuatus Evans, 1951. Amer. Ent. Soc. Trans. 77: 298, figs. 199, 246, 250, 253, 256. ♂ ♀.

**taeniatus baboquivari* Evans. Ariz. (Baboquivari Mts.).

Aporinellus taeniatus baboquivari Evans, 1951. Amer. Ent. Soc. Trans. 77: 286. ♀.

taeniatus rufus Banks. Nebr.

Aporinellus rufus Banks. Reduced to subsp. rank (*teste* Evans, 1951. Amer. Ent. Soc. Trans. 77: 287).

taeniatus semirufus Banks, changed status.

Aporinellus semirufus Banks. Reduced to subsp. rank (*teste* Evans, 1951. Amer. Ent. Soc. Trans. 77: 285).

taeniatus taeniatus (Kohl), changed status.

Aporinellus taeniatus (Kohl). Reduced to subsp. rank (*teste* Evans, 1951. Amer. Ent. Soc. Trans. 77: 282).

Aporinellus banksi Bequaert (syn. by Evans, *loc. cit. supra*).

taeniatus wheeleri Bequaert, changed status. Alleghan. Fauna, Mass. to N. C.

Aporinellus wheeleri Bequaert. Reduced to subsp. rank (*teste* Evans, 1951. Amer. Ent. Soc. Trans. 77: 284).

wheeleri Bequaert. A subsp. of *taeniatus* (Kohl).

Genus ALLOCHARES Banks, p. 936

azureus (Cresson).

**Pompilus sinaloae* Cameron, 1893. Biol. Cent.-Amer., Hym., v. 2, p. 192. ♀. (Syn. by Evans, 1951. Amer. Ent. Soc. Trans. 77: 302.)

**sinaloae* (Cameron). Syn. of *azureus* (Cresson).

Genus PARACYPHONONYX Gribodo, pp. 936-937

funereus (Lepelletier). Calif. Prey: *Lycosa lenta* (Hentz).

Superfamily SPHECOIDEA

Family AMPULICIDAE

AMPULEX subgenus RHINOPSIS Westwood, p. 938

canaliculata Say. Mass.

Family SPHECIDAE

Genus DIPLOPLECTRON Fox, pp. 938-939

**diablensis* Williams. Calif. (Mt. Diablo, Contra Costa Co.).

Diploplectron diablensis Williams, 1950. Wasmann Jour. Biol. 8: 363, fig. 1. ♂.

recticulatus Williams.

Taxonomy: Williams, 1950. Wasmann Jour. Biol. 8: 365, fig. 2. ♀.

ASTATA subgenus DRYUDELLA Spinola, p. 940

immigrans Williams. Calif.

Genus BOTHYNOSTETHUS Kohl, p. 941

distinctus Fox. Va., Fla.

Genus PISONOPSIS Fox, p. 941

Revision: Williams, 1954. Pan-Pacific Ent. 30: 235-246.

birkmanni Rohwer. Nests in hollow stems. Prey: small thomisid spiders.

Biology: Williams, 1954. Pan-Pacific Ent. 30: 236, 238.

clypeata clypeata Fox, changed status.

Pisonopsis clypeata Fox. Reduced to subsp. rank (*teste* Williams, 1954. Pan-Pacific Ent. 30: 240, figs. 7, 12, 19, 30, 32).

- **clypeata occidentalis* Williams. Calif. Nests in ground in *Diadasia* burrows.
Pisonopsis clypeata occidentalis Williams, 1954. Pan-Pacific Ent. 30:
 242, figs. 1-5, 8, 10, 15, 20, 22, 23, 26, 29. ♀ ♂.
 Biology: Linsley, MacSwain and Smith, 1952. Calif. Univ. Pubs. Ent.
 9: 274.
- **triangularis californica* Williams. Calif.
Pisonopsis triangularis californica Williams, 1954. Pan-Pacific Ent. 30:
 245, figs. 6, 9, 11, 13, 16-18, 24, 31. ♀ ♂.
- triangularis triangularis* Ashmead, changed status. Wyo., Calif.
Pisonopsis triangularis Ashmead. Reduced to subsp. rank (*teste* Williams,
 1954. Pan-Pacific Ent. 30: 245, fig. 28).

Genus **PLENOCULUS** Fox, pp. 941-942

- cockerelli* Fox. Calif.; Baja Calif. Prey: small moth caterpillars.
- davisi atlanticus* Viereck, changed status. Conn. south to N. C., Tex.
Plenoculus davisi Fox of Catalog, in part. *P. atlanticus* not a syn. (*teste*
 Krombein, 1955. Ent. Soc. Wash. Proc. 57: 146).
- davisi davisi* Fox, changed status. Cent. N. Y., Mich., Ind., Wis., Iowa, Minn.,
 N. Dak., Mont., northeast. Calif.
Plenoculus davisi Fox of Catalog, in part. *P. atlanticus* not a syn. but a
 valid subsp.

Genus **SOLIERELLA** Spinola, pp. 942-944

- affinis* (Rohwer). Calif.
- boharti* Williams.
Solierella lassemi Williams (only a color phase of *boharti*, *teste* Williams,
 1953. Pan-Pacific Ent. 29: 157).
- corizi* Williams. Tex. (Llano Co.)
- inermis* (Cresson). Fla.
- lassemi* Williams. Syn. of *boharti* Williams.
- major* (Rohwer). Calif. (San Gabriel Mts.).
 Taxonomy: Williams, 1953. Pan-Pacific Ent. 29: 158, figs. 6, 8. ♀ ♂.
- nigrans* Krombein. W. Va., Calif.
- peckhami* (Ashmead). Fla., Calif.
- striatipes* (Ashmead). Baja Calif.
- vierecki* (Rohwer). Calif.
- **weberi* Williams. Calif. (Riverside).
Solierella weberi Williams, 1955. Pan-Pacific Ent. 31: 85, 1 fig. ♂.

Genus **NITELOPTERUS** Ashmead, p. 944

- slossonae* Ashmead. Prey: immature Salticidae, *Metaphidippus galathea*
 (Walck.), *Habrocestum pulex* (Hentz). Nests in sand.
- **NiteLOPTERUS slossonae barberi* Krombein, 1954. Amer. Ent. Soc. Trans.
 80: 12, fig. 8. ♀. N. syn. (a variant, not a subsp., *teste* K. V.
 Krombein).
 Biology: Krombein and Evans, 1954. Ent. Soc. Wash. Proc. 56: 232.—
 Krombein and Evans, 1955. Ent. Soc. Wash. Proc. 57: 231.
- **slossonae barberi* Krombein. Syn. of *slossonae* Ashmead.

Genus **NITELA** Latreille, pp. 944-945

- virginiensis* Rohwer. Wis.

TACHYTES subgenus **TACHYPLENA** Banks, pp. 946-947

- harpax* Patton. N. C.

TACHYTES subgenus TACHYNANA Banks, pp. 947-948**minutus** Rohwer, Fla.**obductus** Fox. Fla., N. C.**parvus** Fox. Fla.**pattoni** Banks. N. C.**Genus LARROPSIS Patton, pp. 948-949****aurantia** (Fox). Prey: *Ceuthophilus fusiformis* Scudd.**TACHYSPHEX subgenus TACHYSPHEX Kohl, pp. 949-953****aethiops** (Cresson). Place Cresson in parentheses in sp. heading.**belfragei** Cresson. S. C. (Clemson).**laevifrons** (Smith). Change p. 245 to p. 291 in orig. cit.**sepulchralis** Williams. Change spelling in sp. heading and orig. cit. from *sepulchralis* to *sepulchralis*.**similis** Rohwer. Prey: *Radinotatum* sp.**terminatus** (Smith). Nesting in loose topsoil. Prey: First and second instar nymphs of *Melanoplus* and *Tryxalus*.

Biology: Strandtmann, 1953. Kans. Ent. Soc. Jour. 26: 49-51, fig. 2.

Genus PROSOPIGASTRA CostaProsopigastra* Costa, 1867. Mus. Zool. Napoli Ann. 4: 88.Type: *Prosopigastra punctatissima* Costa. By monotypy.Place after *Tachysphex* Kohl on p. 953. An undescribed species belonging to a probable new subgenus occurs in California.**MOTES subgenus NOTOGONIUS Howard, p. 954**

Taxonomy: Krombein, 1954. Amer. Ent. Soc. Trans. 80: 15-17 (key to U. S. spp.).

aequalis (Fox). Prey: *Acheta assimilis* F., nymph. Mexico (Zacatecas).**argentata** (Palisot de Beauvois). Mexico (Durango, Zacatecas). Prey: Immature *Acheta assimilis* F. and *Nemobius* sp.

Biology: Krombein and Evans, 1955. Ent. Soc. Wash. Proc. 57: 232.

fuliginosa** (Dahlbom), n. comb. Fla. (Matheson Hammock); Cuba.*Larra fuliginosa* Dahlbom, 1845. Hym. Europaea, v. 1, p. 138. ♂ ♀.*Larrada Dahlbomi* Cresson, 1865. Ent. Soc. Phila. Proc. 4: 138. ♀. Provisional name.**mescalero** Pate. Tex.; Mexico (Durango, Nuevo Leon, Hidalgo).muesebecki** Krombein. Fla., ? Tex.*Motes muesebecki* Krombein, 1954. Amer. Ent. Soc. Trans. 80: 15. ♂ ♀.**muspa** Pate. A subsp. of *vinulenta* (Cresson).**vinulenta muspa** Pate, changed status. ? Tex. Typical *vinulenta* (Cresson) is Cuban.*Motes (Notogonius) muspa* Pate. Reduced to subsp. rank (*teste* Krombein, 1954. Amer. Ent. Soc. Trans. 80: 14).**PISON subgenus PISON Jurine, p. 954****laeve** Smith. Change ♀ to "♀" = ♂ in orig. cit.***PISON subgenus PARACERAMIUS Radoszkowski***Paraceramius* Radoszkowski, 1887. Soc. Ent. Rossica Horae 21: 432.Type: *Paraceramius Koreensis* Radoszkowski. By monotypy..Insert after *Pison* subg. *Pison*, p. 954.

***koreense** (Radoszkowski). Adventive in U. S., Va. (McLean), Ill. (Palisades Pk.); Korea, China, Japan. Builds fragile clay cells side by side in sheltered situations.

Paraceramius Koreensis Radoszkowski, 1887. Soc. Ent. Rossica Horae 21: 433, figs. 1-3. ♀.

TRYPOXYLON subgenus TRYPOXYLON Latreille, pp. 955-956

adelphiae Sandhouse. W. Va., N. C., Fla. Prey: immature *Araneus* (?) sp.

backi Sandhouse. W. Va. Prey: *Tennesseelium formicum* Emerton.

pennsylvanicum Saussure. Fla.

TRYPOXYLON subgenus TRYPARGILUM Richards, pp. 956-957

rubro-cinctum Packard. Prey: *Theridion murarium* Em., *T. lyra* Hentz, *T. alabamense* Gertsch and Archer.

Biology: Krombein, 1954. Brooklyn Ent. Soc. Bul. 49: 5.

striatum Provancher. Nests in wood borings. Prey: immature *Neoscona minima* Camb., adult *Anyphaena pectorosa* Koch.

Biology: Krombein, 1956. Ent. Soc. Wash. Proc. 58: 155-156.

DIODONTUS subgenus DIODONTUS Curtis, p. 958

atratus parenosus Pate. Prey: *Drepanaphis acerifoliae* (Thos.). Nesting in beetle borings.

Biology: Krombein, 1955. Brooklyn Ent. Soc. Bul. 50: 15-16.

PSEN subgenus PSEN Latreille, p. 959

monticola (Packard). W. Va.

PSEN subgenus PSENEO Malloch, p. 959

kohlii kohlii Fox. W. Va.

MIMESA subgenus MIMESA Shuckard, pp. 960-961

ezra (Pate). Wash., Wis.

MIMESA subgenus MIMUMESA Malloch, p. 961

clypeata (Fox). Wash.

johnsoni Viereck. W. Va.

Genus PLUTO Pate, p. 962

arenivagus Krombein. Fla.

littoralis (Malloch.) Fla.

Genus PULVERRO Pate, pp. 964-965

constrictus (Provancher). Delete ? in front of sp. heading. Change v. 12 to v. 22 in orig. cit. of *constrictus*.

Pulverro serrano Pate, n. syn. (teste K. V. Krombein who has examined type of *constrictus* Provancher).

? **laevis** (Provancher). Change v. 12 to v. 22 in orig. cit.

serrano Pate. Syn. of *constrictus* (Provancher).

PEMPHREDON subgenus PEMPHREDON Latreille, pp. 965-966

concolor Say.

Pemphredon (Cemonus) provancheri Dalla Torre (syn. by Krombein, 1955. Ent. News 66: 80).

montanus Dahlbom. Calif., N. Mex., Colo., W. Va., Maine.

virginiana Rohwer. W. Va., Wis. Prey: *Cinara* sp.

PEMPHREDON subgenus CEMONUS Panzer, p. 966

bipartior Fox. W. Va.

provancheri Dalla Torre. Syn. of *Pemphredon* (*Pemphredon*) *concolor* Say.

STIGMUS subgenus STIGMUS Panzer, pp. 966-967

americanus Packard. W. Va. Prey: *Drepanaphis acerifoliae* (Thos.), *Myzocallis* sp., *Chaitophorus* (?) sp., *Rhopalosiphum* sp., *Aphis* (?) or *Anuraphis* (?) sp. Nesting in beetle borings.

Biology: Krombein, 1955. Brooklyn Ent. Soc. Bul. 50: 16.

aphidiperda Rohwer. Va.

fraternus fraternus Say. W. Va.

fulvipes Fox. Nebr., Iowa, N. Mex., Tex., Va., D. C.

Taxonomy: Krombein, 1952. Amer. Ent. Soc. Trans. 78: 94.

inordinatus inordinatus Fox. Wash.

Stigmus reticulatus Mickel, n. syn. (*teste* K. V. Krombein, based on exam. of types).

inordinatus universitatis Rohwer. W. Va.

reticulatus Mickel. Syn. of *inordinatus inordinatus* Fox.

Genus PASSALOEUCUS Shuckard, pp. 967-968

annulatus (Say). Prey: *Drepanaphis acerifoliae* (Thos.)

mandibularis (Cresson). Nesting in abandoned beetle borings in wood. Prey: *Macrosiphum* sp.

Biology: Krombein, 1956. Brooklyn Ent. Soc. Bul. 51: 42-43.

Genus SPILOMENA Shuckard, pp. 968-969

**ampliceps* Krombein. W. Va. (Lost River St. Pk.)

Spilomena ampliceps Krombein, 1952. Ent. Soc. Wash. Proc. 54: 178, figs. 1-3. ♂ ♀.

pusilla (Say). Conn., N. Y., Va., W. Va. Prey: Immature and mature Thysanoptera.

Taxonomy: Krombein, 1952. Ent. Soc. Wash. Proc. 54: 181, figs. 4-6.

Biology: Krombein, 1956. Ent. Soc. Wash. Proc. 58: 155.

AMMOPLANUS subgenus AMMOPLANUS Giraud, p. 969

Add "Preocc." after original citation of *Ammoplanus* subg. *Ceballosia* Giner.

unami Pate. W. Va. (Lost River St. Pk.)

Taxonomy: Krombein, 1956. Ent. Soc. Wash. Proc. 58: 159, figs. 2, 2a. ♂.

Subfamily SPHECINAE

Taxonomy: Evans and Lin, 1956. Amer. Ent. Soc. Trans. 81: 131-153, 73 figs. (larvae).

Tribe CHLORIONINI

(= Tribe SPHECINI of Catalog)

Genus CHLORION Latreille

(= *Sphex* of Catalog, pp. 971-974)

Change endings of specific names to neuter wherever applicable.

CHLORION subgenus AMMOBIA Billberg

(= *Sphex* subg. *Sphex* of Catalog, pp. 971-972)

habenum (Say). Prey: Nymphal Tettigoniidae.

Biology: Strandtmann, 1953. Kans. Ent. Soc. Jour. 26: 51-52.

ichneumoneum ichneumoneum (Linnaeus).

Taxonomy: Evans and Lin, 1956. Amer. Ent. Soc. Trans. 81: 139, figs. 1-8 (larva).

pensylvanicum (Linnaeus).

Taxonomy: Evans and Lin, 1956. Amer. Ent. Soc. Trans. 81: 140, figs. 9-11 (larva).

singulare (Smith). Calif. (Colusa Co.) Prey: *Conocephalus fasciatus* (DeG.).

Biology: Krombein and Evans, 1954. Ent. Soc. Wash. Proc. 56: 233-234.

CHLORION subgenus ISODONTIA Patton, pp. 972-973**auripes** Fernald.

Taxonomy: Evans and Lin, 1956. Amer. Ent. Soc. Trans. 81: 144, figs. 31, 32 (larva).

aztecum (Saussure), changed status.

Sphex (Isodontia) aztecus aztecus Saussure. Raised to sp. rank (*teste* Krombein, 1953. Wasmann Jour. Biol. 10: 332).

Taxonomy: Evans and Lin, 1956. Amer. Ent. Soc. Trans. 81: 143, figs. 29, 30 (larva).

aztecum cinereum Fernald. Raised to sp. rank.**cinereum** Fernald, changed status. Atlantic and Gulf Coast States, Va. to Tex.

Sphex (Isodontia) aztecus cinereus (Fernald). Raised to sp. rank (*teste* Krombein, 1953. Wasmann Jour. Biol. 10: 332).

elegans (Smith). Utah.**exornatum** (Fernald). Fla.**harrisi** Fernald.

Taxonomy: Evans and Lin, 1956. Amer. Ent. Soc. Trans. 81: 143, figs. 23-28 (larva).

CHLORION subgenus PRIONONYX Dahlbom, p. 973**atratum** (Lepeletier).

Taxonomy: Evans and Lin, 1956. Amer. Ent. Soc. Trans. 81: 142, figs. 15-20 (larva).

pubidorsum (Costa). In orig. cit. of *Priononyx canadensis* Provancher change 1889 to 1887.**striatum** (Smith). Calif.**thomae** (Fabricius).

Taxonomy: Evans and Lin, 1956. Amer. Ent. Soc. Trans. 81: 142, figs. 21, 22 (larva).

CHLORION subgenus PALMODES Kohl, p. 974**daggyi** (Murray). Prey: *Atlanticus pachymerus* (Burm.), *Dissosteira carolina* (L.).

Biology: Krombein, 1953. Wasmann Jour. Biol. 10: 281-282.—Krombein, 1955. Ent. Soc. Wash. Proc. 57: 150-151.

Taxonomy: Evans and Lin, 1956. Amer. Ent. Soc. Trans. 81: 141, figs. 12-14 (larva).

rufiventris opuntiae (Rohwer). Change p. 257 to p. 557 in orig. cit.**CHLORION subgenus CHLORION Latreille, p. 974****aerarium** Patton. Prey: *Anurogryllus muticus* (DeG.), *Acheta assimilis* F.**Tribe SPHECINI**

(= Tribe AMMOPHILINI of Catalog)

Genus SPHEX Linnaeus

(= *Ammophila* Kirby, pp. 974-977)

Change specific names to masculine endings wherever applicable.

harti Fernald.

Taxonomy: Evans and Lin, 1956. Amer. Ent. Soc. Trans. 81: 146, figs. 57-59 (larva).

junceus (Cresson).

Taxonomy: Evans and Lin, 1956. Amer. Ent. Soc. Trans. 81: 147, figs. 60-62 (larva).

procerus (Dahlbom). Prey: *Heterocampa astarte* Dblday., *Nadata gibbosa* (Abbot), *Datana* sp., sphingid larvae.

Biology: Krombein, 1953. Wasmann Jour. Biol. 10: 283-286.—Bohart and Knowlton, 1953. Ent. Soc. Wash. Proc. 55: 100-101.—Krombein, 1953. Ent. Soc. Wash. Proc. 55: 118.—Krombein, 1955. Ent. Soc. Wash. Proc. 57: 151-152.

Taxonomy: Evans and Lin, 1956. Amer. Ent. Soc. Trans. 81: 145, figs. 39-46 (larva).

urnarius urnarius (Dahlbom).

Taxonomy: Evans and Lin, 1956. Amer. Ent. Soc. Trans. 81: 146, figs. 47-49 (larva).

Genus PODALONIA Spinola, pp. 977-978***argentipilis** (Provancher), n. comb. Ariz., Calif.

Pelopoëus argentipilis Provancher, 1887. Addit. Corr. Faune Ent. Canada Hym., p. 256. ♀.

Podalonia morrisoni (Cameron), n. syn. (teste K. V. Krombein who has examined type of *argentipilis*).

clypeata Murray.

Taxonomy: Evans and Lin, 1956. Amer. Ent. Soc. Trans. 81: 144, figs. 33-38 (larva).

morrisoni (Cameron). Syn. of **argentipilis* (Provancher).**Genus SCALIPHON Klug, pp. 978-979****caementarium** (Drury).

Taxonomy: Evans and Lin, 1956. Amer. Ent. Soc. Trans. 81: 147, figs. 50-56 (larva).

Genus CHALYBION Dahlbom, p. 979**californicum** (Saussure).

Taxonomy: Evans and Lin, 1956. Amer. Ent. Soc. Trans. 81: 149, figs. 67, 68 (larva).

Genus PODIUM Fabricius, pp. 979-980**carolina** Rohwer. Fla.

Taxonomy: Evans and Lin, 1956. Amer. Ent. Soc. Trans. 81: 150, figs. 69-73 (larva).

Subfamily NYSSONINAE

Taxonomy: Evans and Lin, 1956. Amer. Ent. Soc. Trans. 82: 35-66, 13 pls. (larvae).

Genus ALYSSON Panzer, p. 981**melleus** Say.

Taxonomy: Evans and Lin, 1956. Amer. Ent. Soc. Trans. 82: 41, figs. 1-7 (larva).

NYSSON subgenus NYSSON Latreille, pp. 982-983**daecke** Viereck. Host: *Gorytes canaliculatus* Pack.

Taxonomy: Evans and Lin, 1956. Amer. Ent. Soc. Trans. 82: 42, figs. 8-12 (larva).

melanopus Pate. Transf. to Nysson subg. Epinysson, p. 984.**simplicicornis** Fox. W. Va.**subtilis** Fox. W. Va.

NYSSON subgenus EPINYSSON Pate, pp. 983-984**hoplisivora** Rohwer. Va., Fla.**melanopus** Pate. Que., N. Y., N. J. Transf. from Nysson subg. Nysson, p. 983 (*teste* K. V. Krombein who has examined type of *nigripes* Provancher). Change sex given in orig. cit. of *nigripes* from ♂ to "♂" = ♀.**Genus ZANYSSON Rohwer, p. 985****fuscipes** (Cresson). N. C.**Genus OCHLEROPTERA Holmberg, p. 986****bipunctata** (Say).

Taxonomy: Evans and Lin, 1956. Amer. Ent. Soc. Trans. 82: 47, figs. 23-29 (larva).

AMMATOMUS subgenus TANYOPRYMNUS Cameron, pp. 986-987**moneduloides** (Packard). N. C.**SPHECIUS subgenus SPHECIUS Dahlbom, p. 987****convallis** Patton. Prey: *Diceroprocta apache* (Davis).**grandis** (Say). Delete *nom. nud.* after orig. cit. of *Stizus grandis* Say, 1823. Delete entire entry for *Stizus grandis* Say, 1824.**speciosus** (Drury).

Taxonomy: Evans and Lin, 1956. Amer. Ent. Soc. Trans. 82: 46, figs. 30-36 (larva).

Genus DIENOPLUS Fox, p. 988***citipes** Krombein. Fla., (Orlando, Arcadia). On flat sandy areas.**Dienoplus citipes** Krombein, 1954. Amer. Ent. Soc. Trans. 80: 20, figs. 9, 11, 13. ♂ ♀.**gyponae** (Williams). Transf. from Gorytini of Uncertain Generic Position, p. 993.**Harpactus gyponae** Williams (transf. by Krombein, 1954. Amer. Ent. Soc. Trans. 80: 20, figs. 10, 12).**HARPACTOSTIGMA subgenus ARCESILAS Pate, p. 989****laminiferum** (Fox). Calif.**Psammaecius rufulicornis** (Maidl and Klima), n. syn. Transf. from *Psammaecius*, p. 991 (*teste* K. V. Krombein, who has examined the type of *Gorytes ruficornis* Provancher).**PSAMMAECIUS subgenus HOPLISOIDES Gribodo**(= *Psammaecius* Lepeletier, pp. 989-991)None of our North American species is closely related to the genotype of *Psammaecius*. Pending a generic reclassification of the Gorytini on a global basis, it seems advisable to adopt one of de Beaumont's suggestions (Mitt. Schweiz. Ent. Ges. 25: 214, 1936) and recognize *Hoplisoides* as a discrete subgenus.**armatus** (Provancher).**Psammaecius pergandei** (Handlirsch) of Catalog, n. syn. (*teste* K. V. Krombein who has examined the type of *armatus* (Provancher)).**costalis** (Cresson). N. C., Wis. Prey: *Ceresa palmeri* Van D.**denticulatus** (Packard). Wis.**hamatus** (Handlirsch). Delete *maculatus* (Provancher) from syn.**maculatus** (Provancher). Calif. (Los Angeles).**Psammaecius hamatus** (Handlirsch) of Catalog, in part. *P. maculatus* is a valid sp., not a syn. of *hamatus* (*teste* K. V. Krombein who has examined the type of *maculatus* (Provancher)).

- nebulosus** (Packard). Prey: Nymph of *Ceresa palmeri* Van D. (?).
 Biology: Krombein, 1953. Wasmann Jour. Biol. 10: 286-287.
 Taxonomy: Evans and Lin, 1956. Amer. Ent. Soc. Trans. 82: 45, figs. 43, 44 (larva).
- pergandei** (Handlirsch). Syn. of **armatus** (Provancher).
- ruficornis** Maidl and Klima. Transf. to **Harpactostigma** subg. **Arcesilas**, p. 989, as a syn. of **laminiferum** (Fox).
- tricolor** (Cresson). Fla. Prey: *Parabolocratus brunneus* Ball. Parasite: *Nysson bellus* Cr.
Gorytes (Gorytes) rufocaudatus (Mickel), n. syn. (based on type exam. by K. V. Krombein).
 Biology: Evans, Lin and Yoshimoto, 1954. Ent. News 65: 5-11.

ORYTES subgenus GORYTES Latreille, pp. 991-992

- asperatus** Fox.
Gorytes (Gorytes) corrugis (Mickel), n. syn. (based on type exam. by K. V. Krombein).
 Taxonomy: Evans and Lin, 1956. Amer. Ent. Soc. Trans. 82: 44, figs. 21, 22 (larva).
- atricornis** Packard.
Gorytes (Gorytes) elegantulus (H. S. Smith), n. syn. (based on type exam. by K. V. Krombein).
- canaliculatus** Packard.
 Taxonomy: Evans and Lin, 1956. Amer. Ent. Soc. Trans. 82: 43, figs. 13-20 (larva).
- corrugis** (Mickel). Syn. of **asperatus** Fox.
- dorothyae** dorothyae Krombein, changed status.
Gorytes (Gorytes) dorothyae Krombein. Reduced to subsp. rank (*teste* Krombein, 1954. Amer. Ent. Soc. Trans. 80: 23).
 Taxonomy: Krombein, 1953. Wasmann Jour. Biol. 10: 335. ♀.
- ***dorothyae russeolus** Krombein. Fla.
Gorytes (Gorytes) dorothyae russeolus Krombein, 1954. Amer. Ent. Soc. Trans. 80: 23. ♂ ♀.
- elegantulus** (H. S. Smith). Syn. of **atricornis** Packard.
- gyponacinus** Rohwer. Syn. of **simillimus** Smith.
- rufocaudatus** (Mickel). Transf. to **Psammaecius**, p. 991, as a syn. of **tricolor** (Cresson).
- simillimus** Smith. W. Va.
Gorytes (Gorytes) gyponacinus Rohwer, n. syn. (based on type exam. by K. V. Krombein).
 Biology: Krombein, 1952. Amer. Ent. Soc. Trans. 78: 95.

ORYTES subgenus PSEUDOPHISUS Ashmead, pp. 992-993

- apicalis** Smith. Ga.
Gorytes (Pseudophsis) phaleratus Say of Catalog, in part. *G. apicalis* is a valid sp., not a syn. of **phaleratus** (*teste* I. H. H. Yarrow who has compared specimens of **phaleratus** with the type of **apicalis**).
- Gorytes (Pseudophsis) propinquus** Cresson of Catalog, n. syn. (*teste* I. H. H. Yarrow who compared specimens of **propinquus** with the type of **apicalis**).
- bipartitus** Handlirsch. Syn. of **divisus** Smith.
- divisus** Smith.
Gorytes (Pseudophsis) bipartitus Handlirsch of Catalog, n. syn. (*teste* I. H. H. Yarrow who compared specimens of **bipartitus** with the type of **divisus**).

floridanus Fox. Md., Va., La.

phaleratus Say. Delete *apicalis* Smith, a valid sp., from syn.

propinquus Cresson. Syn. of *apicalis* Smith.

***Genus XENOSPHEX Williams**

Xenosphex Williams, 1954. Wasmann Jour. Biol. 12: 97.

Type: *Xenosphex xerophila* Williams. By monotypy.

Place in Gorytini after subgenus *Pseudoplisus*, p. 993.

**timberlakei* Williams. Calif. (Riverside Co.).

Xenosphex timberlakei Williams, 1955. Wasmann Jour. Biol. 13: 313. ♀.

**xerophila* Williams. Calif. (Riverside Co.). On flowers of *Hugelia*.

Xenosphex xerophila Williams, 1954. Wasmann Jour. Biol. 12: 99, figs. 1-6. ♂ (♀ misdet.).

Taxonomy: Williams, 1955. Wasmann Jour. Biol. 13: 313. ♀.

Gorytini of Uncertain Generic Position, p. 993

gyponae Williams. Transf. to *Dienoplus*, p. 988.

Genus STIZOÏDES Guérin, p. 994

unicinctus (Say). In orig. cit. of *unicinctus* Say, 1823, change sp. name to *renicinctus* and delete "Nom. nud." After cit. of *unicinctus* Say, 1824, add "Emend."

Genus BEMBECINUS Costa, pp. 994-995

neglectus (Cresson). Prey: *Gyponana octolineata* (Say) and *Texananus excultus* (Uhl.) (rarely *Xerophloea majesta* Laws., *Scolops* sp.).

Biology: Evans, 1955. Behaviour 7: 287-295, 4 figs.

Taxonomy: Evans and Lin, 1956. Amer. Ent. Soc. Trans. 82: 47, figs. 37-42 (larva).

Genus STENIOLIA Say, p. 995

elegans Parker.

Taxonomy: Evans and Lin, 1956. Amer. Ent. Soc. Trans. 82: 52, figs. 66-71 (larva).

nigripes Parker. Prey: *Aphoebantus* spp.

Biology: Gillaspay, 1951. Pan-Pacific Ent. 27: 167-168.

Taxonomy: Evans and Lin, 1956. Amer. Ent. Soc. Trans. 82: 53 (larva).

Genus STICTIELLA Parker, pp. 995-996

pulla (Handlirsch).

Taxonomy: Evans and Lin, 1956. Amer. Ent. Soc. Trans. 82: 52, figs. 63-65 (larva).

serrata (Handlirsch).

Taxonomy: Evans and Lin, 1956. Amer. Ent. Soc. Trans. 82: 51, figs. 59-62 (larva).

Genus BICYRTES Lepelletier, pp. 996-997

fodiens (Handlirsch).

Taxonomy: Evans and Lin, 1956. Amer. Ent. Soc. Trans. 82: 50, figs. 53-55 (larva).

quadrifasciata (Say). Prey: *Nezara viridula* (L.), *Euschistus tristigmus* (Say), *Thyanta custator* (F.), *Brochymena carolinensis* (Westw.), *Dendrocoris humeralis* (Uhl.), *Archimerus alternatus* (Say), *Leptoglossus oppositus* (Say).

Biology: Krombein, 1955. Ent. Soc. Wash. Proc. 57: 152-157, 4 figs.

Taxonomy: Evans and Lin, 1956. Amer. Ent. Soc. Trans. 82: 49, figs. 45-52 (larva).

ventralis (Say).

Taxonomy: Evans and Lin, 1956. Amer. Ent. Soc. Trans. 82: 50, figs. 56-58 (larva).

Genus **MICROBEMBEX** Patton, pp. 997-998

aurata Parker. Syn. of *nigrifrons* (Provancher).

monodonta (Say). Delete *nigrifrons* (Provancher), a valid sp., from syn.

Taxonomy: Evans and Lin, 1956. Amer. Ent. Soc. Trans. 82: 55, figs. 79-84 (larva).

nigrifrons (Provancher).

Microbembex monodonta (Say) of Catalog, in part. *M. nigrifrons* is a valid sp., not a syn. of *monodonta* (teste K. V. Krombein who has examined the type of *nigrifrons*). Change *Bembex* to *Monedula* in orig. cit. of *nigrifrons*.

Microbembex aurata Parker, n. syn. (teste K. V. Krombein).

Genus **STICTIA** Illiger

(= *Bembix* of Catalog, p. 998)

Delete references to *Bembix* Fabricius and *Bembex* Fabricius in the generic synonymy.

carolina (Fabricius).

Taxonomy: Evans and Lin, 1956. Amer. Ent. Soc. Trans. 82: 53, figs. 72-78 (larva).

**vivida* (Handlirsch). Tex. (Port Isabel); Mexico.

Monedula vivida Handlirsch, 1890. Akad. der Wiss. Wien, Math.-Nat. Kl. Sitzber. 99: 101. ♀.

Genus **BEMBIX** Fabricius

(= *Epibembex* Minkiewicz, pp. 998-1000)

Delete first entry in the generic synonymy. Add the following citations above the citation of *Epibembex* Minkiewicz.

Bembix Fabricius, 1775. Systema Ent., Char. Gen., p. [11]. No included spp.

Type: *Bembix rostrata* Fabricius. Desig. by Latreille, 1810 (one of the three spp. included in *Bembyx* (!) by Fabricius, *op cit.*, p. 361).

Bembyx (!) Fabricius, 1775. Systema Ent., p. 361. *Lapsus* for *Bembix*.

Bembex (!) Fabricius, 1777. Gen. Ins., p. 122. *Lapsus* for *Bembix*.

Remove parentheses from names of all authors in specific headings. Delete that part of sentence on prey preferences stating, "but a few prey on immature Hemiptera."

belfragei Cresson.

Taxonomy: Evans and Lin, 1956. Amer. Ent. Soc. Trans. 82: 61, figs. 98-101 (larva).

cinerea Handlirsch. N. Y. Prey: a wide variety of Diptera.

Biology: Krombein and Evans, 1955. Ent. Soc. Wash. Proc. 57: 233-234.

Taxonomy: Evans and Lin, 1956. Amer. Ent. Soc. Trans. 82: 59, fig. 109 (larva).

comata Parker.

Taxonomy: Evans and Lin, 1956. Amer. Ent. Soc. Trans. 82: 59 (larva).

hinei Parker. Nests in hard-packed sand on beach front. Prey: Tabanidae.

Biology: Strandtmann, 1953. Kans. Ent. Soc. Jour. 26: 48-49.

occidentalis beutenmülleri Fox.

Taxonomy: Evans and Lin, 1956. Amer. Ent. Soc. Trans. 82: 58, figs. 85-87 (larva).

pruinosa Fox.

Taxonomy: Evans and Lin, 1956. Amer. Ent. Soc. Trans. 82: 57, figs. 88-93 (larva).

sayi Cresson.

Taxonomy: Evans and Lin, 1956. Amer. Ent. Soc. Trans. 82: 60, figs. 94-97 (larva).

spinolae Lepeletier.

Taxonomy: Evans and Lin, 1956. Amer. Ent. Soc. Trans. 82: 58, fig. 108 (larva).

texana Cresson. N. C. Prey: a wide variety of Diptera. Delete reference to this species using immature Hemiptera as prey.

Taxonomy: Evans and Lin, 1956. Amer. Ent. Soc. Trans. 82: 62, figs. 105-107 (larva).

troglodytes Handlirsch.

Taxonomy: Evans and Lin, 1956. Amer. Ent. Soc. Trans. 82: 61, figs. 102-104 (larva).

Genus PHILANTHUS Fabricius, pp. 1000-1003**flavifrons** Cresson. Prey: *Apis mellifera* L.

***Liris magnifica** Provancher, 1895. Nat. Canad. 22: 130. ♂. N. syn. (teste K. V. Krombein who has examined the type).

Biology: Bohart, 1954. Ent. Soc. Wash. Proc. 56: 26-27.

magnifica** (Provancher). Syn. of **flavifrons** Cresson.rugosa** (Provancher). Syn. of **ventilabris** Fabricius.**sanbornii** Cresson. Prey: *Lasioglossum forbesii* (Robt.), *Agapostemon radiatus* (Say), *Apis mellifera* L.

Biology: Evans, 1955. Brooklyn Ent. Soc. Bul. 50: 47.

ventilabris Fabricius.

***Liris rugosa** Provancher, 1895. Nat. Canad. 22: 130. ♂. N. syn. (teste K. V. Krombein who has examined the type).

Genus CERCERIS Latreille, pp. 1004-1011**architis** Mickel. Prey: *Curculio rectus* (Say).**atramontensis** Banks. Prey: *Conotrachelus posticatus* Boh., *C. naso* Lec. Biology: Krombein, 1956. Brooklyn Ent. Soc. Bul. 51: 43.**bicornuta bicornuta** Guérin. Prey: *Calendra venata vestita* (Chit.), *C. cariosa* (Oliv.).

Biology: Krombein, 1953. Ent. Soc. Wash. Proc. 55: 118-119.

californica Cresson. Prey: Many spp. of Buprestidae, including *Acmaeodera*, *Agrius*, *Anthaxia*, *Chrysobothris*.

Biology: Linsley and MacSwain, 1956. Ent. Soc. Amer. Ann. 49: 71-84, 3 figs.

clypeata Dahlbom. Prey: *Chalepus dorsalis* Thunb.**robertsonii** Fox. N. C. Prey: *Rhabdopterus picipes* (Oliv.), *Cryptocephalus notatus* F., *Pachybrachis dilatatus* Suffr.

Biology: Krombein, 1953. Wasmann Jour. Biol. 10: 288-294.—Krombein, 1953. Ent. Soc. Wash. Proc. 55: 119-121.

Genus EUCERCERIS Cresson, pp. 1011-1013**flavocincta** Cresson. Prey: *Dyslobus* sp.

Biology: Bohart and Powell, 1956. Pan-Pacific Ent. 32: 143-144.

ruficeps Scullen. Prey: *Dysticheus rotundicollis* Van Dyke, *Sitona californicus* Fahr.

Biology: Linsley and MacSwain, 1954. Pan-Pacific Ent. 30: 11-14.

Tribe CRABRONINI

Taxonomy: J. Leclercq, 1954. Monogr. syst., phylogen. et zoogeogr. des Hym. Crabron., 371 pp., 40 figs., 84 maps. These, Liege (catalog of spp. of world).

Genus ANACRABRO Packard, p. 1013**ocellatus ocellatus** Packard.

Thyreopus rugoso-punctatus Provancher of Catalog, n. syn. Transf. from Crabronini of Unknown Generic Position, p. 1029 (*teste* K. V. Krombein who has examined the type).

LINDENIUS subgenus TRACHELOSIMUS Morawitz, p. 1015

**dugesianus* Leclercq. Ariz.; Mexico (Guanajuato).

Lindenius (Trachelosimus) dugesianus Leclercq, 1950. Inst. Roy. Sci. Nat. Belg. Bul. 26, no. 6, p. 1. ♀.

CRABRO subgenus PARANTHYREUS Ashmead, pp. 1015-1016

aequalis Fox. N. C., Fla.

cingulatus (Packard). Wis.

CRABRO subgenus SYNANTHYREOPUS Ashmead, pp. 1016-1017

henrici Krombein. N. Mex.

CRABRO subgenus CRABRO Fabricius, pp. 1017-1018

juniatæ Krombein. W. Va. Prey: *Hylemya cilicrura* (Rond.).

pallidus Fox. Oreg.

EUPLILIS subgenus CORYNOPUS Lepeletier and Brullé, p. 1019

arapaho Pate. Utah.

coarctatus modestus (Rohwer), changed status. Replaces *coarctatus* (Scopoli) of Catalog (*teste* Tsuneki, 1955. Annot. Zool. Japon. 28: 126). Delete Holarctic and east of Rockies from range. Delete citations for *coarctata* Scopoli and *tibialis* Fabricius. Typical *coarctatus* (Scopoli) is Palaearctic.

CROSSOCERUS subgenus YUCHIHA Pate, p. 1020

xanthochilos Pate.

Taxonomy: Krombein, 1952. Amer. Ent. Soc. Trans. 78: 96. ♂.

CROSSOCERUS subgenus CROSSOCERUS Lepeletier and Brullé, pp. 1020-1021

incavus (Fox). Wis.

**planifemur* Krombein. W. Va. (Lost River St. Pk.). Nesting in tunnels in logs.

Crossocerus (Crossocerus) planifemur Krombein, 1952. Ent. Soc. Wash. Proc. 54: 181. ♀ ♂.

similis (Fox). W. Va., Mich.

CROSSOCERUS subgenus EPICROSSOCERUS Ashmead, p. 1021

An undescribed species from Utah nests in twigs of *Sambucus* and provisions with chalcidids.

CROSSOCERUS subgenus BLEPHARIPUS Lepeletier and Brullé, pp. 1021-1023

ambiguus (Dahlbom). W. Va., Wis., Wash.

cinctipes (Provancher). Wis.

Crabro niger Provancher, n. syn. *Niger* is a syn. of *cinctipes* not of *harringtonii* (Fox) (*teste* K. V. Krombein who has examined the type of *niger*).

Crabro servus Dalla Torre, n. syn.

harringtonii (Fox). Delete *niger* Provancher and *servus* Dalla Torre from syn. and place them in syn. of *cinctipes* (Provancher).

Taxonomy: Krombein, 1952. Ent. Soc. Wash. Proc. 54: 184. ♂.

CROSSOCERUS subgenus NOTHOCRABRO Pate, p. 1023

nitidiventris (Fox).

Taxonomy: Krombein, 1953. Wasmann Jour. Biol. 10: 338.

Ectemnius subgenus CLYTOCHRYsus Morawitz, p. 1024

comptus (Lepeletier and Brullé). Syn. of *lapidarius* (Panzer).

lapidarius (Panzer). Replaces *comptus* (Lepeletier and Brullé) (*teste* Leclercq, 1954. Monogr. syst., phylogen., zoogeogr. Hym. Crabron., p. 285). Delete ? before cit. of *Crabro lapidarius* Panzer.

Ectemnius subgenus METACRABRO Ashmead, p. 1025

4-cinctus (Fabricius). Delete *Crabro frigidus* Smith from syn. and transf. to subg. *Lophocrabro*, p. 1025 as a syn. of *singularis* (Smith).

Ectemnius subgenus LOPHOCRABRO Rohwer, p. 1025

singularis (Smith).

? *Crabro maculatus* Fabricius. Transf. from Crabronini of Unknown Generic Position, p. 1029 (*teste* J. Leclercq, 1954. Monogr. syst., phylogen., et zoogeogr. des Hym. Crabron., p. 290. These, Liege.)

Crabro frigidus Smith. A syn. of *singularis* (Smith), not of *Ectemnius* (*Metacrabro*) *4-cinctus* (Fabricius) (*teste* L. Leclercq, loc. cit. *supra*).

Ectemnius subgenus HYPOCRABRO Ashmead, pp. 1025-1027

centralis (Cameron). Transf. to *Ectemnius* subg. *Apoctemnius*, which follows.

excavatus banksi (Rohwer). Transf. to *Ectemnius* subg. *Apoctemnius*, which follows.

excavatus excavatus (Fox). Transf. to *Ectemnius* subg. *Apoctemnius*, which follows.

scaber (Lepeletier and Brullé). Transf. to *Ectemnius* subg. *Apoctemnius*, which follows.

texanus ais Pate. Transf. to *Ectemnius* subg. *Apoctemnius*, which follows.

texanus texanus (Cresson). Transf. to *Ectemnius* subg. *Apoctemnius*, which follows.

***Ectemnius subgenus APOCTEMNIUS Leclercq, p. 1027**

Ectemnius subg. *Apoctemnius* J. Leclercq, 1950. Rev. Franc. d'Ent. 17: 200.

Type: *Ectemnius* (*Apoctemnius*) *domingensis* Leclercq. Orig. desig.

Place after *Ectemnius* subgenus *Hypocrabro* Ashmead, p. 1027.

centralis (Cameron). Transf. from *Ectemnius* subg. *Hypocrabro*, p. 1025 (*teste* J. Leclercq, 1954. Monogr. syst., phylogen. et zoogeogr. des Hym. Crabron., p. 276. These Liege).

excavatus banksi (Rohwer). Transf. from *Ectemnius* subg. *Hypocrabro*, p. 1026 (*teste* J. Leclercq, 1954. Monogr. syst., phylogen. et zoogeogr. des Hym. Crabron., p. 275. These, Liege).

excavatus excavatus (Fox). Transf. from *Ectemnius* subg. *Hypocrabro*, p. 1026 (*teste* J. Leclercq, 1954. Monogr. syst., phylogen. et zoogeogr. des Hym. Crabron., p. 275. These, Liege).

**scaber rufescens* Krombein. Cent. and south Fla.

Ectemnius (*Hypocrabro*) *scaber rufescens* Krombein, 1954. Amer. Ent. Soc. Trans. 80: 24. ♂ ♀.

scaber scaber (Lepeletier and Brullé), changed status. Intergrading with *scaber rufescens* Krombein in north. Fla., southeast. Ga., and southeast. La. Transf. from *Ectemnius* subg. *Hypocrabro*, p. 1027 (*teste* J. Leclercq, 1954. Monogr. syst., phylogen. et zoogeogr. des Hym. Crabron., p. 275. These, Liege).

Ectemnius (*Hypocrabro*) *scaber* (Lepeletier and Brullé). Reduced to subsp. rank (*teste* Krombein, 1954. Amer. Ent. Soc. Trans. 80: 24).

texasus ais Pate. Transf. from **Ectemnius** subg. **Hypocrabro**, p. 1027 (*teste* J. Leclercq, 1954. Monogr. syst., phylogen. et zoogeogr. des Hym. Crabron., p. 275. These, Liege.).

texasus texanus (Cresson). Ariz. Transf. from **Ectemnius** subg. **Hypocrabro**, p. 1027, (*teste* J. Leclercq, 1954. Monogr. syst., phylogen. et zoogeogr. des Hym., Crabron. p. 275. These, Liege.).

LESTICA subgenus **SOLENIUS** Lepeletier and Brullé, pp. 1028-1029

cinctella (Fox). Calif.

Taxonomy: J. Leclercq, 1951. Soc. Ent. Belg. Bul. et Ann. 87: 171. ♂.

rufipes (Lepeletier and Brullé). Transf. from Crabronini of Unknown Generic Position, p. 1029 (*teste* J. Leclercq, 1954. Monogr. syst., phylogen. et zoogeogr. des Hym. Crabron., p. 294. These, Liege.).

Crabronini of Unknown Generic Position, p. 1029

maculatus Fabricius. Transf. to **Ectemnius** subg. **Lophocrabro**, p. 1025 as a questionable syn. of **singularis** (Smith).

rufipes Lepeletier and Brullé. Transf. to **Lestica** subg. **Solenius**, p. 1028.

rugoso-punctatus Provancher. Transf. to **Anacrabro**, p. 1013, as a syn. of **o. ocellatus** Packard.

Nomina Nuda in Crabronini

Insert after Crabronini of Unknown Generic Position, p. 1029.

***glauconotatus** Harris. Mass.

Crabro glauconotatus Harris, 1835. In Hitchcock, Rpt. Geol., Mineral., Bot., Zool., Mass., p. 588.

Genus OXYBELUS Latreille, pp. 1030-1034

Taxonomy: Bohart and Schlinger, 1956. Pan-Pacific Ent. 32: 157-165 (annotated synonymical list of N. A. spp.).

The generic name is neuter, and all specific names requiring agreement in gender should be changed.

abdominale Baker. U. S. west of 100th Meridian, north to Idaho, Nebr.

Oxybelus calligaster. (Viereck) (syn. by Bohart and Schlinger, 1956. Pan-Pacific Ent. 32: 158).

acutus Baker. Syn. of **subulatum** Robertson.

albomaculata (Mickel). Syn. of **taenigaster** Viereck.

albosignatus H. S. Smith. Syn. of **subulatum** Robertson.

americana (Robertson). Syn. of **emarginatum** Say.

apicatus H. S. Smith. Syn. of **robertsonii** Baker.

argentarius Mickel. Syn. of **exclamans** Viereck.

***argenteopilosum** Cameron. West. N. A. from Colo. and Oreg. south to Mexico (Tehuantepec).

Oxybelus argenteopilosus Cameron, 1891. Biol. Cent.—Amer., Hym., v. 2, p. 158, pl. 9, figs. 23, 23a. ♀.

***argypheum** Bohart and Schlinger. Calif., Ariz., south. Colo.

Oxybelus argypheum Bohart and Schlinger, 1956. Biol. Soc. Wash. Proc. 69: 38. ♀.

bipunctatum Olivier. Change sp. ending from **us** to **um**. Prey: *Hyalomyodes triangulifera* (Lw.), *Leucostoma aterrima* (Vill.).

***californicum** Bohart and Schlinger. West. U. S. and north. Mexico.

Oxybelus californicum Bohart and Schlinger, 1956. Pan-Pacific Ent. 32: 147. ♂ ♀.

calligaster (Viereck). Syn. of **abdominale** Baker.

- **canalis* Bohart and Schlinger. Southwest. U. S., north to Utah; north. Mexico.
Oxybelus canalis Bohart and Schlinger, 1956. Pan-Pacific Ent. 32: 149.
 ♂ ♀.
- carolinus* Banks. Syn. of *packardii* Robertson.
- cochise* Pate. Baja Calif., Mexico.
- cockerelli* Baker. Syn. of *subcornutum* Cockerell.
- coloradensis* Baker. Syn. of *parvum* Cresson.
- cornutum* Robertson. U. S. west of 100° W., Montana south to Mexico (Guadalajara).
Oxybelus quadricolor Cockerell and Baker (syn. by Krombein, 1955. Brooklyn Ent. Soc. Bul. 50: 70).
Oxybelus polygoni Rohwer (syn. by Krombein, *loc. cit. supra*).
- **crandalli* Bohart and Schlinger. Ariz., Ark.
Oxybelus crandalli Bohart and Schlinger, 1956. Pan-Pacific Ent. 32: 154. ♀.
- cressonii* Robertson. Centr. U. S., Utah, and Tex., east to Va., north to Mich.
- decorosum* (Mickel). U. S. east of 100° W., Vt. and Minn., south to Fla. Change sp. ending from *a* to *um*.
- delicatus* Mickel. Syn. of *sericeum sericeum* Robertson.
- denverensis* Rohwer. Syn. of *subcornutum* Cockerell.
- dilutus* Baker. Syn. of *emarginatum* Say.
- emarginatum* Say. U. S. and south. Canada, south nearly to Mexico City. Delete *parvus* Cresson, a valid sp. from syn.—in orig. cit. of *parvus* change ♀ to “♀” = ♂.
Oxybelus dilutus Baker (syn. by Bohart and Schlinger, 1956. Pan-Pacific Ent. 32: 160).
Oxybelus trifidus Cockerell and Baker (syn. by Bohart and Schlinger, *loc. cit. supra*).
Notoglossa americana Robertson (syn. by Bohart and Schlinger, *loc. cit. supra*).
Notoglossa pacifica Rohwer (syn. by Krombein, 1955. Brooklyn Ent. Soc. Bul. 50: 73).
Notoglossa minor Mickel (syn. by Bohart and Schlinger, *loc. cit. supra*).
- exclamans* Viereck. West. U. S., north to S. Dak., east to Fla., south to Mexico (Chihuahua).
Oxybelus townsendi Rohwer and Cockerell (syn. by Bohart and Schlinger, 1956. Pan-Pacific Ent. 32: 160).
Oxybelus argentarius Mickel (syn. by Bohart and Schlinger, *loc. cit. supra*).
Oxybelus pectorosus Mickel (syn. by Bohart and Schlinger, *loc. cit. supra*).
- **fastigatus* Mickel. Syn. of *taenigaster* Viereck.
- floridanus* Robertson. Syn. of *laetum fulvipes* Robertson.
- fossor* Rohwer and Cockerell. U. S. west of 100° W., north to Nebr.; Baja Calif., Mexico.
Oxybelus umbrosus Mickel (syn. by Pate, 1943. Pan-Pacific Ent. 19: 125).
Oxybelus puente Pate (Syn. by Bohart and Schlinger, 1956. Pan-Pacific Ent. 32: 160).
- frontale* Robertson. U. S. east of Rocky Mts., Tex. north to Mich. and Pa. Change sp. ending from *is* to *e*.
- fulvipes* Robertson. A subsp. of *laetum* Say.
- glenensis* H. S. Smith. Syn. of *robertsoni* Baker.

- heterolepis* Cockerell and Baker. Syn. of *packardii* Robertson.
- heterolepis* var. *defectus* Cockerell and Baker. Syn. of *packardii* Robertson.
- **hirsutus* Baker. Syn. of *robertsonii* Baker.
- incisura* (Mickel). Syn. of *parvum* Cresson.
- inornatum* (Robertson). Northeast. U. S., Mich. to Mass., south to N. C. Change sp. ending from **a** to **um**. Prey: *Pholeomyia indecora* (Lw.).
- intermedius* Baker. Syn. of *parvum* Cresson.
- **krombeini* Bohart and Schlinger. Calif.
Oxybelus krombeini Bohart and Schlinger, 1956. Pan-Pacific Ent. 32: 149. ♂ ♀.
- laetum fulvipes* Robertson, changed status. Southeast. Coastal States north to Va.
Oxybelus fulvipes Robertson. Reduced to subsp. rank (*teste* Bohart and Schlinger, 1956. Pan-Pacific Ent. 32: 161).
- Oxybelus floridanus* Robertson (syn. by Bohart and Schlinger, *loc. cit. supra*).
- laetum laetum* Say, changed status. U. S. east of 100° W., Tex. to N. C., north to Mich. and Mass. Sp. ending changed from **us** to **um**.
Oxybelus laetus Say. Reduced to subsp. rank (*teste* Bohart and Schlinger, 1956. Pan-Pacific Ent. 32: 161).
- **linsleyi* Bohart and Schlinger. Calif.
Oxybelus linsleyi Bohart and Schlinger, 1956. Pan-Pacific Ent. 32: 151. ♂ ♀.
- **macswaini* Bohart and Schlinger. Calif.
Oxybelus macswaini Bohart and Schlinger, 1956. Pan-Pacific Ent. 32: 153. ♂ ♀.
- majus* Mickel. East. U. S., Tex. to N. C., north to Mich. and Va. Sp. ending changed from **or** to **us**.
- manni* Rohwer. Syn. of **ventrale* Fox.
- minor* (Mickel). Syn. of *emarginatum* Say.
- mottensis* Mickel. Syn. of *subulatum* Robertson.
- nigrum* Robertson. Southeast. Canada and northeast. U. S., Minn. and Ill. to N. Y. Change sp. ending from **er** to **rum**. Prey: *Lonchaea polita* Say.
- pacifica* (Rohwer). Syn. of *emarginatum* Say.
- packardii* Robertson. U. S., Calif. to Fla., north to Ill., Ohio, and N. J.
Oxybelus Packardii var. *texanus* Robertson (syn. by Bohart and Schlinger, 1956. Pan-Pacific Ent. 32: 162).
- Oxybelus heterolepis* Cockerell and Baker (syn. by Bohart and Schlinger, *loc. cit. supra*).
- Oxybelus heterolepis* var. *defectus* Cockerell and Baker (syn. by Bohart and Schlinger, *loc. cit. supra*).
- Oxybelus unicus* Mickel (syn. by Bohart and Schlinger, *loc. cit. supra*).
- Oxybelus carolinus* Banks (syn. by Bohart and Schlinger, *loc. cit. supra*).
- packardii* var. *texanus* Robertson. Syn. of *packardii* Robertson.
- paenemarginatum* (Viereck). Change sp. ending from **us** to **um**.
- **paracochise* Bohart and Schlinger. Ariz., Tex.; north. Mexico.
Oxybelus paracochise Bohart and Schlinger, 1956. Biol. Soc. Wash. Proc. 69: 37. ♂ ♀.
- parvum* Cresson. U. S. west of 100° W., Nebr., and Utah to south. Calif. and north. Mexico.

- Oxybelus emarginatus* Say of Catalog, in part. *O. parvus* Cresson is a valid sp., not a syn. of *emarginatus* (teste K. V. Krombein, who has examined the type of the former).
- Oxybelus intermedius* Baker, (syn. by Bohart and Schlinger, 1956. Pan-Pacific Ent. 32: 162).
- Oxybelus coloradensis* Baker (syn. of *intermedius* Baker, teste Krombein, 1955. Brooklyn Ent. Soc. Bul. 50: 72).
- Notoglossa incisura* Mickel (syn. of *intermedius* Baker, teste Krombein, loc. cit. supra).
- pectorosus* Mickel. Syn. of *exclamans* Viereck.
- pitanta* Pate. Southwest. U. S., Calif. and Nev. to N. Mex.
- polygoni* Rohwer. Syn. of *cornutum* Robertson.
- puente* Pate. Syn. of *fossor* Rohwer and Cockerell.
- punctatus* Baker. Syn. of *subcornutum* Cockerell.
- quadricolor* Cockerell and Baker. Syn. of *cornutum* Robertson.
- quadrinotatus* Say. A subsp. of *uniglumis* (Linnaeus).
- quadrinotatus* var. *montanus* Robertson. Syn. of *uniglumis quadrinotatum* Say.
- rejectum* Baker. Change sp. ending from *us* to *um*. Possibly an aberrant *cornutum* Robertson.
- robertsonii* Baker. Northwest. U. S., Nebr. to Oreg., south to Nev. and Calif.
- Oxybelus varicoloratus* Baker (syn. by Krombein, 1955. Brooklyn Ent. Soc. Bul. 50: 71).
- **Oxybelus hirsutus* Baker, Ent. News 7: 157. ♀. (Syn. by Krombein, loc. cit. supra.)
- Oxybelus apicatus* H. S. Smith (syn. by Bohart and Schlinger, 1956. Pan-Pacific Ent. 32: 163).
- Oxybelus glenensis* H. S. Smith (syn. by Bohart and Schlinger, loc. cit. supra).
- **sericeum crocatus* Krombein. Miss., Ga. Nesting on sand beach. Prey: *Chaetopsis fulvifrons* (Macq.).
- Oxybelus sericeus crocatus* Krombein, 1955. Brooklyn Ent. Soc. Bul. 50: 73. ♂ ♀.
- sericeum sericeum* Robertson, changed status. U. S., south to Baja Calif., Mexico. Change sp. ending from *us* to *um*.
- Oxybelus sericeus* Robertson. Reduced to subsp. rank (teste Krombein, 1955. Brooklyn Ent. Soc. Bul. 50: 73).
- Oxybelus delicatus* Mickel (syn. by Bohart and Schlinger, 1956. Pan-Pacific Ent. 32: 163).
- simile* Cresson. U. S. west of Rocky Mts. Change sp. ending from *is* to *e*.
- Oxybelus striatifrons* (Mickel) (syn. by Bohart and Schlinger, 1956. Pan-Pacific Ent. 32: 164).
- sparideum* Cockerell. Southwest. U. S., Ariz. to Tex., Okla., south to Mexico (Vera Cruz). Change sp. ending from *us* to *um*.
- striatifrons* (Mickel). Syn. of *simile* Cresson.
- striatus* Baker. Syn. of *subcornutum* Cockerell.
- subcornutum* Cockerell. U. S. from Ariz. to East Coast, Mich. south to Mexico (Chihuahua).
- Oxybelus cockerelli* Baker (syn. by Bohart and Schlinger, 1956. Pan-Pacific Ent. 32: 164).
- Oxybelus punctatus* Baker (syn. by Bohart and Schlinger, loc. cit. supra).
- Oxybelus striatus* Baker (syn. by Bohart and Schlinger, loc. cit. supra).
- Oxybelus denverensis* Rohwer (syn. by Bohart and Schlinger, loc. cit. supra).

- subulatum** Robertson. Northeast. U. S., Colo. to Mass. north to Canada.
Oxybelus acutus Baker (syn. by Bohart and Schlinger, 1956. Pan-Pacific Ent. 32: 164).
Oxybelus albosignatus H. S. Smith (syn. by Bohart and Schlinger, *loc. cit. supra*).
Oxybelus mottensis Mickel (syn. by Bohart and Schlinger, *loc. cit. supra*).
 ***taenigaster** (Viereck). Cent. U. S., incl. Ariz., N. Mex., Nebr., south to Mexico (Oaxaca).
 **Notoglossa taenigaster* Viereck, 1906. Amer. Ent. Soc. Trans. 32: 215. ♀.
 **Oxybelus fastigatus* Mickel, 1916. Amer. Ent. Soc. Trans. 42: 433. ♂ ♀, (syn. by Bohart and Schlinger, 1956. Pan-Pacific Ent. 32: 165).
Oxybelus albomaculata (Mickel) (syn. by Bohart and Schlinger, *loc. cit. supra*).
 ***timberlakei** Bohart and Schlinger. Calif.
Oxybelus timberlakei Bohart and Schlinger, 1956. Pan-Pacific Ent. 32: 150. ♂ ♀.
townsendi Rohwer and Cockerell. Syn. of **exclamans** Viereck.
trifidus Cockerell and Baker. Syn. of **emarginatum** Say.
umbrosus Mickel. Syn. of **fossor** Rohwer and Cockerell.
unicus Mickel. Syn. of **packardii** Robertson.
uniglumis quadrinotatus Say, changed status. South. Canada and U. S. south into Mexico (Puebla). Change sp. ending from **us** to **um**. *O. uniglumis uniglumis* (Linnaeus) is Palaearctic.
Oxybelus quadrinotatus Say. Reduced to subsp. rank (*teste* Bohart and Schlinger, 1956. Pan-Pacific Ent. 32: 165).
Oxybelus quadrinotatus var. **montanus** Robertson (syn. by Bohart and Schlinger, *loc. cit. supra*).
varicoloratus Baker. Syn. of **robertsonii** Baker.
 ***ventrale** Fox. Pacific Coast, Wash., south to Baja Calif.
Oxybelus ventralis Fox, 1894. Calif. Acad. Sci. Proc. (2) 4: 107. ♀.
Oxybelus manni Rohwer (syn. by Bohart and Schlinger, 1956. Pan-Pacific Ent. 32: 165).
 ***xerophilum** Bohart and Schlinger. Calif., Ariz.
Oxybelus xerophilum Bohart and Schlinger, 1956. Pan-Pacific Ent. 32: 154. ♂.

Family DRYINIDAE

This family, with its component genera and species, should be transferred to the Bethyloidea to follow the family Sclerogibbidae, p. 734.

Superfamily APOIDEA

Taxonomy: Michener, 1953. Kans. Univ. Sci. Bul. 35: 987-1102, 287 figs. (larvae).—Michener, 1954. Pan-Pacific Ent. 30: 63-70 (pupae).
 Morphology: Wille, 1956. Kans. Univ. Sci. Bul. 38: 439-499, 72 figs. (thoracic musculature).

Family COLLETIDAE

Genus COLLETES Latreille, pp. 1044-1049

Revision: Stephen, 1954. Kans. Univ. Sci. Bul. 36: 149-527. 87 figs., 8 maps.

aberrans Cockerell. Mich., west to Alta., Colo., and N. Mex. On flowers of *Petalostemon*.

aestivalis Patton. Mass., south to N. C., Tenn., Ill.

- albescens** Cresson. Wis. and Ill., west to Man., Utah, and N. Mex. On flowers of *Amorpha*.
- algarobiae** Cockerell. Utah. On flowers of *Dalea*, *Eriogonum*, *Rhus*.
- andrewsi** Cockerell. Wis., S. Dak., Man. On flowers of *Heuchera*.
- angelicus** Cockerell. On flowers of *Eriogonum*, *Hemizonia*, *Isocoma*.
- annae annae** Cockerell, changed status. N. Mex., Ariz. On flowers of *Baccharis* and *Solidago*.
Colletes annae Cockerell. Reduced to subsp. rank (*teste* Stephen, 1954. Kans. Univ. Sci. Bul. 36: 312, fig. 36).
- Colletes crucis* Cockerell (syn. by Stephen, *loc. cit. supra*).
**Colletes cockerelli* Timberlake, 1951. Wasmann Jour. Biol. 9: 221. ♀.
 (Syn. by Stephen, *loc. cit. supra*.)
- *annae disseptus* Timberlake, changed status. South. Calif.; Baja Calif.
Colletes disseptus Timberlake, 1951. Wasmann Jour. Biol. 9: 223. ♀ ♂.
 Reduced to subsp. rank (*teste* Stephen, 1954. Kans. Univ. Sci. Bul. 36: 316).
- apacheorum** Timberlake. Syn. of **wootoni** Cockerell.
- *aridus* Stephen. Tex., N. Mex. On flowers of *Phacelia*.
Colletes aridus Stephen, 1954. Kans. Univ. Sci. Bul. 36: 494, fig. 75.
 ♂ ♀.
- *arizonensis* Stephen. Ariz. mts.
Colletes arizonensis Stephen, 1954. Kans. Univ. Sci. Bul. 36: 204. ♂ ♀.
- banksi** Swenk. Fla. to N. Y., Mich.
Colletes banksi Swenk (a valid sp., *teste* T. B. Mitchell based on exam. of types, not a syn. of *distinctus* Cresson).
**Colletes ilicis* Mitchell, 1951. Elisha Mitchell Sci. Soc. Jour. 67: 234, figs. 12, 13. ♀, ♂. N. syn. (*teste* T. B. Mitchell, *in litt.*).
- *beamerorum* Stephen. Tex.; Mexico (Chihuahua). On flowers of *Monarda*.
Colletes beamerorum Stephen, 1954. Kans. Univ. Sci. Bul. 36: 465, fig. 73. ♂.
- birkmanni** Swenk. N. Mex., Okla. On flowers of *Rhus*.
- *bradleyi* Mitchell. N. J. (Chatsworth and Chesilhurst).
Colletes bradleyi Mitchell, 1951. Elisha Mitchell Sci. Soc. Jour. 67: 239. ♀.
- brevihirtus** Timberlake. Syn. of **ciliatus** Patton.
- *brimleyi* Mitchell. N. J., N. C., Ga., Fla. On flowers of *Ilex*.
Colletes brimleyi Mitchell, 1951. Elisha Mitchell Sci. Soc. Jour. 67: 231, figs. 14, 15. ♀ ♂.
- *bryanti* Timberlake. Ariz., N. Mex.
Colletes bryanti Timberlake, 1951. Wasmann Jour. Biol. 9: 208. ♂ ♀.
- *bulbotibialis* Stephen. N. Mex. (Belen).
Colletes bulbotibialis Stephen, 1954. Kans. Univ. Sci. Bul. 36: 458, fig. 71. ♂.
- californicus** Provancher. South. and centr. Calif. On flowers of *Baccharis*, *Cryptantha*, *Phacelia*, *Layia*. Change p. 1 to p. 189 in orig. cit.
- *carolinus* Mitchell. Syn. of *distinctus* Cresson.
- *cercidii* Timberlake. Calif., Ariz. On flowers of *Cercidium*.
Colletes cercidii Timberlake, 1951. Wasmann Jour. Biol. 9: 198. ♂ ♀.
- chamaesarachae** Cockerell. Ariz. On flowers of *Chamaesaracha*.
- *ciliatoides* Stephen. Utah, Idaho. On flowers of *Cuscuta*.
Colletes ciliatoides Stephen, 1954. Kans. Univ. Sci. Bul. 36: 463, fig. 74. ♂.

- ciliatus** Patton. Va., Ill., Iowa, Nebr., Kans., Colo. On flowers of *Cuscuta*.
Colletes speciosa Robertson (syn. by Stephen, 1954. Kans. Univ. Sci. Bul. 36: 460, fig. 72).
- Colletes brevihirtus* Timberlake (syn. by Stephen, *loc. cit. supra*).
- ***cismontanus** Timberlake. A subsp. of **xerophilus** Timberlake.
- clypeonitens** Swenk. Nev., Ariz., west. Tex. On flowers of *Dalea*, *Larrea*, *Prosopis*.
- ***cockerelli** Timberlake. Syn. of **annae annae** Cockerell.
- compactus hesperius** Swenk. Calif., Idaho, Utah, Colo., Ariz.
- consors consors** Cresson. Colo., Wyo., Idaho, Mont. On flowers of *Hydrophyllum*, *Pentstemon*, *Phacelia*, *Taraxacum*.
Colletes zonatus Viereck (syn. by Stephen, 1954. Kans. Univ. Sci. Bul. 36: 414, fig. 61).
- consors mesocopus** Swenk, changed status. N. S. to Mass., west to N. W. T. and Alta. On flowers of *Rubus* and *Kalmia*.
Colletes mesocopus Swenk. Reduced to subsp. rank (*teste* Stephen, 1954. Kans. Univ. Sci. Bul. 36: 416).
- consors pascoensis** Cockerell. B. C. and Idaho, south to Calif. and Utah. On flowers of *Phacelia*.
- ***covilleae** Timberlake. South. Calif.; Baja Calif. On flowers of *Larrea*.
Colletes covilleae Timberlake, 1951. Wasmann Jour. Biol. 9: 231. ♂ ♀.
- crawfordi** Swenk. A subsp. of **texanus** Cresson.
- crucis** Cockerell. Syn. of **annae annae** Cockerell.
- daleae** Cockerell. Utah, Tex. to Calif.; Baja Calif. On flowers of *Dalea*, *Eriogonum*, *Rhus*.
- ***deserticola** Timberlake. N. Mex., Calif.; Baja Calif. On flowers of *Prosopis* and *Melilotus*.
Colletes deserticola Timberlake, 1951. Wasmann Jour. Biol. 9: 232. ♂ ♀.
- ***disseptus** Timberlake. A subsp. of **annae** Cockerell.
- distinctus** Cresson. N. C., Ga., Fla.
 **Colletes carolinus* Mitchell, 1951. Elisha Mitchell Sci. Soc. Jour. 67: 233. ♀. N. syn (*teste* T. B. Mitchell, based on exam. of types).
- erioni** Cockerell. Syn. of **slevini** Cockerell.
- eulophi** Robertson, changed status. South. half of U. S., west to Colo. and Ariz. On flowers of *Aster*, *Ceanothus*, *Chrysanthemum*, *Clematis*, *Eupatorium*, *Solidago*, *Sophia*.
Colletes eulophi eulophi Robertson. Raised to sp. rank (*teste* Stephen, 1954. Kans. Univ. Sci. Bul. 36: 266, fig. 22).
- eulophi albertensis** Cockerell. Syn. of **kincaidii** Cockerell.
- fraseriae** Swenk. Syn. of **hyalinus hyalinus** Provancher.
- fulgidus fulgidus** Swenk, changed status. Reduced to subsp. rank. Mont., Alta., S. Dak. On flowers of *Chaenactis*, *Clarkia*, *Encelia*, *Eriogonum*, *Grindelia*, *Isocoma*, *Medicago*, *Melilotus*, *Salix*, *Solidago*.
 Taxonomy: Michener, 1953. Kans. Univ. Sci. Bul. 35: 1018, figs. 27, 30-33, 35 (larva).
- ***fulgidus longiplumosus** Stephen. Coastal north. Calif. On flowers of *Clarkia* and *Layia*.
Colletes fulgidus longiplumosus Stephen, 1954. Kans. Univ. Sci. Bul. 36: 248. ♂ ♀.
- gaudialis** Cockerell. A subsp. of **hyalinus** Provancher.
- gilensis** Cockerell. Tex. On flowers of *Melilotus*, *Petalostemon*, *Potentilla*, *Solidago*.

- gypsicolens** Cockerell. B. C. to Calif., southeast to Colo. and N. Mex. On flowers of *Aster*, *Chrysothamnus*, *Isocoma*.
- hyalinus gaudialis** Cockerell, changed status. South. Calif. On flowers of *Asclepias*, *Baccharis*, *Eriogonum*, *Gutierrezia*, *Heliotropium*, *Hemizonia*, *Isocoma*, *Oenothera*, *Solidago*.
- Colletes gaudialis** (!) Cockerell, with its synonym *arenicola* Cockerell. Reduced to subsp. rank (*teste* Timberlake, 1951. Wasmann Jour. Biol. 9: 212).
- hyalinus hyalinus** Provancher, changed status. N. S. and Maine, west to Alta., Colo., and N. Mex. On flowers of *Achillea*, *Cirsium*, *Epilobium*, *Kalmia*, *Solidago*, *Rhus*, *Frasera*.
- Colletes hyalinus** Provancher. Reduced to subsp. rank (*teste* Timberlake, 1951. Wasmann Jour. Biol. 9: 210).
- Colletes spurcus** Viereck (syn. by Timberlake, *loc. cit. supra*).
- Colletes fraseriae** Swenk (syn. by Stephen, 1954. Kans. Univ. Sci. Bul. 36: 369, fig. 51).
- *hyalinus oregonensis** Timberlake. Coastal Oreg. and Calif.
- Colletes hyalinus oregonensis** Timberlake, 1951. Wasmann Jour. Biol. 9: 211. ♀ ♂.
- *ilicis** Mitchell. Syn. of **banksi** Swenk.
- impunctatus lacustris** Swenk, changed status. N. B. and N. H. west to B. C., Yukon, N. W. T. Typical *impunctatus* Nylander is Palaearctic.
- Colletes lacustris** Swenk. Reduced to subsp. rank (*teste* Stephen, 1954. Kans. Univ. Sci. Bul. 36: 401, fig. 58).
- Colletes vicinalis** Graenicher (syn. by Stephen, *loc. cit. supra*).
- inaequalis** Say, changed status. N. S. to Ga., west to Sask., Kans., Tex., and into Idaho and Wash.
- Colletes inaequalis inaequalis** Say and **Colletes inaequalis ferrugineus** Swenk (*teste* Stephen, 1954. Kans. Univ. Sci. Bul. 36: 389, fig. 55).
- inaequalis ferrugineus** Swenk. Syn. of **inaequalis** Say.
- *kansensis** Stephen. Kans. On flowers of *Monarda*.
- Colletes kansensis** Stephen, 1954. Kans. Univ. Sci. Bul. 36: 297, fig. 29. ♂.
- kincaidii** Cockerell. N. S. and N. Y. west to B. C. and Calif. On flowers of *Heracleum*, *Pentstemon*, *Potentilla*, *Symphoricarpos*.
- Colletes eulophi albertensis** Cockerell (syn. by Stephen, 1954. Kans. Univ. Sci. Bul. 36: 270).
- Colletes stricklandi** Cockerell (syn. by Stephen, *loc. cit. supra*).
- lacustris** Swenk. A subsp. of **impunctatus** Nylander.
- *larreae** Timberlake. South. Calif., Ariz. On flowers of *Larrea*, *Acamptopappus*, *Barbarea*.
- Colletes larreae** Timberlake, 1951. Wasmann Jour. Biol. 9: 193. ♂ ♀.
- *laticinctus** Timberlake. Nebr. west to Idaho, south to N. Mex. and Ariz. On flowers of *Gutierrezia*, *Pectis*, *Polygonum*.
- Colletes laticinctus** Timberlake, 1951. Wasmann Jour. Biol. 9: 220. ♀.
- latitarsis** Robertson. Mich. to Fla., west to Mont., Colo., Tex., Ariz. On flowers of *Physalis*, *Asclepias*, *Ceanothus*, *Polygonum*, *Solidago*, *Symphoricarpos*.
- *linsleyi** Timberlake. Calif. (Blythe). On flowers of *Tamarix*.
- Colletes linsleyi** Timberlake, 1951. Wasmann Jour. Biol. 9: 205. ♀.
- *longifacies** Stephen. Fla. (De Funiak Springs).
- Colletes longifacies** Stephen, 1954. Kans. Univ. Sci. Bul. 36: 500. ♀.
- louisae** Cockerell. South. Calif. to west. Tex. On flowers of *Baccharis*, *Chrysothamnus*, *Isocoma*, *Larrea*, *Prosopis*, *Solidago*.
- Colletes tucsonensis** Cockerell (syn. by Stephen, 1954. Kans. Univ. Sci. Bul. 36: 252, fig. 18).

- ***lutzi interior** Timberlake, changed status. Northeast. Calif., Nev., Oreg., Wash., Idaho. On flowers of *Melilotus*.
Colletes monticola interior Timberlake, 1951. Wasmann Jour. Biol. 9: 214. ♀ ♂. A subsp. of **lutzi** Timberlake (*teste* Stephen, 1954. Kans. Univ. Sci. Bul. 36: 376).
- lutzi lutzi** Timberlake, changed status. Idaho, Wyo., Utah, Colo., N. Mex. On flowers of *Chrysothamnus*, *Cleome*, *Melilotus*.
Colletes lutzi Timberlake. Reduced to subsp. rank (*teste* Stephen, 1954. Kans. Univ. Sci. Bul. 36: 375).
- ***lutzi monticola** Timberlake, changed status. Sierras of Calif. On flowers of *Castanopsis*, *Chrysothamnus*, *Solidago*.
Colletes monticola monticola Timberlake, 1951. Wasmann Jour. Biol. 9: 212. ♀ ♂. Reduced to subsp. rank under **lutzi** (*teste* Stephen, 1954. Kans. Univ. Sci. Bul. 36: 378).
Colletes monticola inyoensis Timberlake, 1951. Wasmann Jour. Biol. 9: 215. ♀. (Syn. by Stephen, *loc. cit. supra*.)
- ***lutzi pinorum** Timberlake, changed status. South. Calif. (San Jacinto and San Bernardino Mts.). On flowers of *Aster*, *Cryptantha*, *Eriogonum*, *Gnaphalium*, *Hemizonia*, *Layia*.
Colletes monticola pinorum Timberlake, 1951. Wasmann Jour. Biol. 9: 215. ♀ ♂. A subsp. of **lutzi** Timberlake (*teste* Stephen, 1954. Kans. Univ. Sci. Bul. 36: 381).
- mandibularis** Smith. B. C., N. S., U. S., east of the Rockies. On flowers of *Amorpha*, *Amphiachris*, *Cassia*, *Heterotheca*, *Isopappus*, *Medicago*, *Melilotus*, *Prionopsis*.
Colletes similis Robertson, not Schenck (syn. by Stephen, 1954. Kans. Univ. Sci. Bul. 36: 360, fig. 48).
Colletes simulator Michener (syn. by Stephen, *loc. cit. supra*).
- mesocopus** Swenk. A subsp. of **consors** Cresson.
- ***metzi** Timberlake. Colo. (Boulder).
Colletes metzi Timberlake, 1951. Wasmann Jour. Biol. 9: 192. ♂. Taxonomy: Stephen, 1954. Kans. Univ. Sci. Bul. 36: 289, fig. 30.
- ***micheneri** Stephen. Nebr. (Halsey).
Colletes micheneri Stephen, 1954. Kans. Univ. Sci. Bul. 36: 357. ♂ ♀.
- ***mitchelli** Stephen. U. S. east of the Great Plains, except New England.
Colletes mitchelli Stephen, 1954. Kans. Univ. Sci. Bul. 36: 325, fig. 38. ♂ ♀.
- ***monticola interior** Timberlake. A subsp. of **lutzi** Timberlake.
- ***monticola inyoensis** Timberlake. A syn. of **lutzi monticola** Timberlake.
- ***monticola monticola** Timberlake. A subsp. of **lutzi** Timberlake.
- ***monticola pinorum** Timberlake. A subsp. of **lutzi** Timberlake.
- nigrifrons** Titus. North Que. to N. W. T. and Yukon, south in mts. to north-east Calif., Ariz., and N. Mex. On flowers of *Drymocallis*, *Linum*, *Mertensia*, *Oxytropis*, *Polemonium*, *Potentilla*, *Ranunculus*.
- ***nitescens** Timberlake. Calif.
Colletes nitescens Timberlake, 1951. Wasmann Jour. Biol. 9: 187. ♂ ♀.
- nudus** Robertson. Ont. south to N. C. and La.; west to Wis., Colo. On flowers of *Monarda*, *Verbena*, *Symphoricarpos*, *Melilotus*.
- ochraceus** Swenk. Baja Calif. On flowers of *Eriogonum*, *Isocoma*.
- ***paniscus mertensiae** Timberlake. North. Calif. On flowers of *Mertensia*.
Colletes paniscus mertensiae Timberlake, 1951. Wasmann Jour. Biol. 9: 182. ♂ ♀.
- paniscus paniscus** Viereck, changed status. Ariz. and N. Mex., north to Mont. On flowers of *Houstonia*, *Iris*, *Mertensia*, *Salix*.
Colletes paniscus Viereck. Reduced to subsp. rank (*teste* Timberlake, 1951. Wasmann Jour. Biol. 9: 182.)

- Colletes pleuralis* Swenk (syn. by Stephen, 1954. Kans. Univ. Sci. Bul. 36: 420).
- **paniscus sculleni* Timberlake. Oreg., Wash., Idaho, Utah, Wyo. On flowers of *Mertensia*.
- Colletes paniscus sculleni* Timberlake, 1951. Wasmann Jour. Biol. 9:183.
♂ ♀.
- **perileucus* Cockerell. Mexico (Baja Calif., Sonora); Calif., Ariz., Tex. On flowers of *Prosopis* and *Melilotus*.
- Colletes perileucus* Cockerell, 1924. Calif. Acad. Sci. Proc. (4) 12: 535. ♀.
- petalostemonis* Swenk. N. Dak. and Nebr. to Alta., Ariz., and Calif. On flowers of *Dalea* and *Petalostemon*.
- phaceliae* Cockerell. B. C. to Man., south to Iowa, Kans., N. Mex., Ariz., Calif. On flowers of *Aster*, *Cleome*, *Epilobium*, *Grindelia*, *Gutierrezia*, *Helenium*, *Malvastrum*, *Melilotus*, *Petalostemon*, *Phacelia*, *Psoralea*, *Ribes*, *Senecio*, *Solidago*, *Tetradymia*.
- pleuralis* Swenk. Syn. of *paniscus paniscus* Viereck.
- productus* Robertson. Mass., west to Wis., south to Ga. and Ala. On flowers of *Rhus* and *Xolisma*.
- pulcher* Swenk. Syn. of *thoracicus* Smith.
- **punctipennis maurus* Stephen. Tex. (Brownsville). Typical *punctipennis* Cresson occurs only in Mexico.
- Colletes punctipennis maurus* Stephen, 1954. Kans. Univ. Sci. Bul. 36: 232, fig. 11. ♂.
- punctipennis* Cresson. Delete this entry; U.S. specimens belong to *punctipennis maurus* Stephen.
- robertsonii* Dalla Torre, changed status. Ill. and Miss., west to Man. and N. Mex. On flowers of *Amorpha*, *Monarda*, *Petalostemon*.
- Colletes robertsonii robertsonii* Dalla Torre. Raised to sp. rank (*teste* Stephen, 1954. Kans. Univ. Sci. Bul. 36: 286).
- Colletes robertsonii robustus* Swenk. (Syn. by Stephen, *loc. cit supra*.)
- robertsonii robustus* Swenk. Syn. of *robertsonii* Dalla Torre.
- **rudis* Timberlake. Calif. (near Indio). On flowers of *Encelia*.
- Colletes rudis* Timberlake, 1951. Wasmann Jour. Biol. 9:197. ♂.
- rufithorax* Swenk. Syn. of *thoracicus* Smith.
- rufocinctus* Cockerell. Minn. west to Alta., south to S. Dak., Colo., Ariz. On flowers of *Aster*, *Grindelia*, *Helianthus*, *Solidago*, *Taraxacum*.
- salicicola* Cockerell. Tex. to Calif., in deserts. On flowers of *Cercidium*, *Dalea*, *Eriogonum*, *Hyptis*, *Larrea*, *Phacelia*, *Prosopis*, *Salix*.
- **saritensis* Stephen. Tex. (near Sarita). On flowers of *Dalea*.
- Colletes saritensis* Stephen, 1954. Kans. Univ. Sci. Bul. 36: 341, fig. 43.
♂ ♀.
- scopiventer* Swenk. Ariz., Calif. On flowers of *Chamaesaracha* and *Solanum*. In orig. cit., change ♀ ♂ to ♀ (♂ misdet.).
- similis* Robertson, not Schenck. Syn. of *mandibularis* Smith.
- simulans armatus* Patton. N. S., south to N. C., west to Nebr. and Alta. On flowers of *Aster* and *Solidago*.
- **simulans miamiensis* Mitchell. Fla. (Miami). Intergrades between *s. simulans* and *s. miamiensis* occur in Miss. and Tex.
- Colletes simulans miamiensis* Mitchell, 1951. Elisha Mitchell Sci. Soc. Jour. 67: 236. ♂.
- simulans nevadensis* Swenk. Wash., Oreg. On flowers of *Baccharis*, *Chrysothamnus*, *Ericameria*, *Eriogonum*, *Gutierrezia*, *Aplopappus*, *Lepidospartum*.

- simulans simulans** Cresson. Mont., Ariz. On flowers of *Aster*, *Bigelovia*, *Grindelia*, *Senecio*.
- simulator** Michener. Syn. of **mandibularis** Smith.
- skinneri** Viereck. Ariz.
- slevini** Cockerell. Wash. to Wyo., south to Calif. and Ariz. On flowers of *Amorpha*, *Aster*, *Bigelovia*, *Chrysanthemum*, *Eriogonum*, *Euphorbia*, *Rhamnus*.
- Colletes eriogoni** Cockerell (syn. by Timberlake, 1951. Wasmann Jour. Biol. 9: 208).
- solidaginis** Swenk. Mass. to N. C., west to Minn. and Nebr.
- *solitarius** Timberlake. Calif. (Inyo Co.).
- Colletes solitarius** Timberlake, 1951. Wasmann Jour. Biol. 9: 216. ♀.
- speciosus** Robertson. Syn. of **ciliatus** Patton.
- *sphaeralceae** Timberlake. Calif., Nev., Utah. On flowers of *Sphaeralcea*.
- Colletes sphaeralceae** Timberlake, 1951. Wasmann Jour. Biol. 9: 189. ♂ ♀.
- spurcus** Viereck. Syn. of **hyalinus hyalinus** Provancher.
- stricklandi** Cockerell. Syn. of **kincaidii** Cockerell.
- susannae** Swenk. Wis. and Ill., west to Alta. and Colo. On flowers of *Kuhnistera* and *Helianthus*.
- *swenki** Stephen. Tex., Kans. On flowers of *Acacia*, *Coreopsis*, *Rhus*, *Prosopis*, *Chamaesaracha*, *Marrubium*, *Quincula*.
- Colletes swenki** Stephen, 1954. Kans. Univ. Sci. Bul. 36: 450, fig. 68. ♂ ♀.
- *tectiventris** Timberlake. Calif. On flowers of *Isocoma*, *Eriogonum*.
- Colletes tectiventris** Timberlake, 1951. Wasmann Jour. Biol. 9: 218. ♀ ♂.
- texanus crawfordi** Swenk, changed status. North. Tex. On flowers of *Physalis*.
- Colletes crawfordi** Swenk. Reduced to subsp. rank (*teste* Stephen, 1954. Kans. Univ. Sci. Bul. 36: 450).
- texanus texanus** Cresson, changed status. South Tex.
- Colletes texanus** Cresson. Reduced to subsp. rank (*teste* Stephen, 1954. Kans. Univ. Sci. Bul. 36: 447, fig. 69).
- thoracicus** Smith. Mass. to Fla., west to Okla. and Tex. On flowers of *Ilex*, *Pyrus*, *Salix*, *Vaccinium*.
- Colletes pulcher** Swenk (syn. by Stephen, 1954. Kans. Univ. Sci. Bul. 36: 393, fig. 56).
- Colletes rufithorax** Swenk (syn. by Stephen, *loc. cit. supra*).
- *thysanellae** Mitchell. Fla., Ga., N. C., Va.
- Colletes thysanellae** Mitchell, 1951. Elisha Mitchell Sci. Soc. Jour. 67: 238, figs. 18-20. ♀ ♂.
- *timberlakei** Stephen. Colo., Wyo. On flowers of *Petalostemon*.
- Colletes timberlakei** Stephen, 1954. Kans. Univ. Sci. Bul. 36: 290, fig. 31. ♂.
- *titusensis** Mitchell. Fla. (Titusville, Tampa).
- Colletes titusensis** Mitchell, 1951. Elisha Mitchell Sci. Soc. Jour. 67: 237, figs. 16, 17. ♂.
- Taxonomy: Stephen, 1954. Kans. Univ. Sci. Bul. 36: 497, fig. 84. ♀.
- tucsonensis** Cockerell. Syn. of **louisae** Cockerell.
- *turgiventris** Timberlake. Calif. On flowers of *Phacelia*.
- Colletes turgiventris** Timberlake, 1951. Wasmann Jour. Biol. 9: 196. ♂ ♀.
- validus** Cresson. N. B. to N. C., west to Mich. On flowers of *Prunus*, *Ribes*, *Vaccinium*, *Leucothoe*, *Chamaedaphne*.

**vandykei* Timberlake. Ariz. (Santa Rita Mts.).

Colletes vandykei Timberlake, 1951. Wasmann Jour. Biol. 9: 200. ♂.

vicinalis Graenicher. Syn. of *impunctatus lacustris* Swenk.

wickhami Timberlake. Kans., Tex., N. Mex., Ariz. On flowers of *Chrysanthamnus*, *Helenium*, *Phacelia*, *Quincula*.

wilmattae Cockerell. Wis., Minn., Iowa, Man., Nebr., Tex., N. Mex. On flowers of *Petalostemon*.

wootoni Cockerell. Ariz. to west. Tex. On flowers of *Amorpha*, *Dasylirion*, *Helenium*, *Isocoma*, *Melilotus*, *Nolium*, *Phacelia*, *Petalostemon*, *Sapindus*, *Sphaeralcea*, *Solidago*, *Wislizenia*.

Colletes apacheorum Timberlake (syn. by Timberlake, 1951. Wasmann Jour. Biol. 9: 210).

**xerophilus cismontanus* Timberlake, changed status. South. Calif. deserts.

Colletes cismontanus Timberlake, 1951. Wasmann Jour. Biol. 9: 186.

♂ ♀. Reduced to subsp. rank (*teste* Stephen, 1954. Kans. Univ. Sci. Bul. 36: 437).

**xerophilus sonoranus* Timberlake. N. Mex. (Pecos). On flowers of *Salix*.

Colletes xerophilus sonoranus Timberlake, 1951. Wasmann Jour. Biol. 9: 186.

**xerophilus xerophilus* Timberlake. South. Calif. On flowers of *Salix*.

Colletes xerophilus Timberlake, 1951. Wasmann Jour. Biol. 9: 184.
♂ ♀.

zonatus Viereck. Syn. of *consors consors* Cresson.

Genus *HYLAEUS* Fabricius, pp. 1049-1052

**certus* Mitchell. Preocc., syn. of *illinoisensis* Robertson.

confluens (Smith). N. C. (*Prosopis*)

Hylaeus triangularis (Cockerell), n. syn. (*teste* T. B. Mitchell, based on exam. of type of *confluens*).

cressoni cressoni (Cockerell). Nests in twig of *Symphoricarpos*.

ellipticus (Kirby). In orig. cit. of *elliptica* change 1827 to 1837.

**graenicheri* Mitchell. Fla. (Miami).

Hylaeus graenicheri Mitchell, 1951. Elisha Mitchell Sci. Soc. Jour. 67: 240. ♀.

**hydrangeae* Mitchell. N. C. (Cruso). On flowers of *Hydrangea*. (*Metziella*)

Hylaeus (Metziella) hydrangeae Mitchell, 1951. Elisha Mitchell Sci. Soc. Jour. 67: 244. ♀.

illinoisensis Robertson. Maine, Mass., N. Y. On flowers of *Apocynum* and *Pastinaca*. (*Prosopis*)

Hylaeus modestus modestus Say, in part. *Prosopis illinoisensis* Robertson is a valid sp., not a syn. (*teste* T. B. Mitchell, based on type exam.).

**Hylaeus (Prosopis) certus* Mitchell, 1951. Elisha Mitchell Sci. Soc. Jour. 67: 241, figs. 4-7. ♂ ♀. Preocc., n. syn. (*teste* T. B. Mitchell, in litt.).

melitinus (Lovell). Syn. of *verticalis verticalis* (Cresson).

modestus modestus Say. Remove *sparsus* (Cresson) and *illinoisensis* (Robertson), both valid spp., from syn.

nelumbonis (Robertson). Transf. *fossata* Metz to syn. of *schwarzii* (Cockerell).

**ornatus* Mitchell. N. C. (coast and Piedmont). On flowers of *Hypericum*, *Cephalanthus* and *Parthenocissus*. (*Prosopis*)

Hylaeus (Prosopis) ornatus Mitchell, 1951. Elisha Mitchell Sci. Soc. Jour. 67: 242, figs. 8-11. ♂ ♀.

**packardi* Mitchell. Me., N. Y. (*Paraprosopis*)

Hylaeus (Paraprosopis) packardi Mitchell, 1951. Elisha Mitchell Sci. Soc. Jour. 67: 244. ♂.

schwarzii (Cockerell). N. C.

Hylaeus fossata (Metz), n. syn. The ♂ type is a specimen of *schwarzii*, not of *nelumbonis* (Robertson); the ♀ allotype is a specimen of *ornatus* Mitchell (*teste* T. B. Mitchell, based on exam. of type series of *fossata*).

sparsus (Cresson), changed status. A valid sp., not a syn. of *modestus* Say.

Hylaeus thaspiae (Robertson), n. syn. (*teste* T. B. Mitchell who has exam. types of *sparsus* and *thaspiae*).

thaspiae (Robertson). Syn. of *sparsus* (Cresson).

triangularis (Cockerell). Syn. of *confluens* Smith.

verticalis verticalis (Cresson).

Hylaeus melitinus (Lovell), n. syn. (*teste* T. B. Mitchell, based on exam. of type of *melitina*).

**volusiensis* Mitchell. Fla. (Volusia Co.) (*Prosopis*)

Hylaeus (Prosopis) volusiensis Mitchell, 1951. Elisha Mitchell Sci. Soc. Jour. 67: 245. ♀ ♂.

Family ANDRENIDAE

Taxonomy: Rozen, 1951. Kans. Ent. Soc. Jour. 24: 142-150, 17 figs. (male genitalia).

Genus ANDRENA Fabricius, pp. 1053-1086

**Andrena* subg. *Bythandrena* Lanham, 1950. Ent. News 61: 140. N. name for *Andrena* subg. *Cryptandrena* Lanham, 1949, preocc. by *Cryptandrena* Pittioni, 1948.

**Andrena* subg. *Onagrandrena* Linsley and MacSwain, 1956. Pan-Pacific Ent. 32: 111.

Type: *Andrena oenotherae* Timberlake. Orig. design.

Taxonomy: Linsley and MacSwain, 1955. Pan-Pacific Ent. 31: 163-172 (key to spp. of subg. *Melandrena* Perez).

adela Viereck. Syn. of *bisalicis* Viereck.

albofoveata (Graenicher). N. C.

amplificata Cockerell. Calif.

**angelesia* Timberlake. South. Calif. On flowers of *Platystemon*, *Encelia*, and *Cryptantha*. (*Oligandrena*)

Andrena (Oligandrena) angelesia Timberlake, 1951. U. S. Natl. Mus. Proc. 101: 404. ♀ ♂.

anograe Cockerell. Wyo., Calif. Bearing pollen of *Oenothera*. Transf. from (*Melandrena*) to (*Onagrandrena*)

Andrena micranthophila Cockerell (syn. by Linsley and MacSwain, 1955). Pan-Pacific Ent. 31: 166).

belfragei Cresson. Syn. of *perplexa* Smith.

bernardina Linsley. A subsp. of *grundeli* Linsley.

bipunctata Cresson. A syn. of *miserabilis* Cresson by rule of first reviser.

bisalicis Viereck.

Andrena adela Viereck, n. syn. (*teste* T. B. Mitchell, based on exam. of types).

blaisdelli Cockerell. On flowers of *Oenothera*, *Salix*, *Cryptantha*. Transf. from (*Melandrena*) to (*Onagrandrena*).

- ***blandula** Timberlake. Calif. (Mt. Hamilton Range). (*Thysandrena*)
Andrena (Thysandrena) blandula Timberlake, 1951. U. S. Natl. Mus.
 Proc. 101: 410. ♀.
- bradleyi** Viereck. N. C.
- ***californica californica** Timberlake. Calif. On flowers of *Quercus*,
Ceanothus, *Arctostaphylos*, *Cryptantha*, *Horkelia*, *Salix*, *Nem-*
ophila. (*Trachandrena*)
Andrena (Trachandrena) californica Timberlake, 1951. U. S. Natl. Mus.
 Proc. 101: 373. ♀ ♂.
- ***californica wickhami** Timberlake. North. Calif. (*Trachandrena*)
Andrena (Trachandrena) californica wickhami Timberlake, 1951. U. S.
 Natl. Mus. Proc. 101: 375. ♀.
- carlini** Cockerell. Wyo.
- chlorogaster chlorogaster** Viereck, changed status. On flowers of *Sambucus*,
Ranunculus, *Trifolium*.
Andrena chlorogaster Viereck. Reduced to subsp. rank (*teste* Timber-
 lake, 1951. U. S. Natl. Mus. Proc. 101: 392. ♂).
- ***chlorogaster gavilanica** Timberlake. South. Calif. On flowers of *Lomatium*
 and *Sanicula*. (*Micrandrena*)
Andrena (Micrandrena) chlorogaster gavilanica Timberlake, 1951. U. S.
 Natl. Mus. Proc. 101: 394. ♂ ♀.
- ***chlorogaster nesiotis** Timberlake. Calif. (Santa Catalina Is.). (*Micrandrena*)
Andrena (Micrandrena) chlorogaster nesiotis Timberlake, 1951. U. S.
 Natl. Mus. Proc. 101: 394. ♂.
- cockerelli** Graenicher. Syn. of **frigida** Smith.
- colletina** Cockerell. North. Calif.
- complexa** Viereck.
 Taxonomy: Michener, 1953. Kans. Univ. Sci. Bul. 35: 1034, figs. 82,
 83, 85 (larva).
- cornelli** Viereck. Syn. of **tridens** Robertson.
- crassihirta** (Viereck). Oreg.
- ***cryptanthae** Timberlake. South. Calif. On flowers of *Cryptantha*.
 (*Scoliandrena*)
Andrena (Scoliandrena) cryptanthae Timberlake, 1951. U. S. Natl. Mus.
 Proc. 101: 401. ♀ ♂.
- deserticola** Timberlake. On flowers of *Oenothera*. Transf. from (*Melandrena*)
 to (*Onagrandrena*).
 Biology: Linsley and MacSwain, 1955. Pan-Pacific Ent. 31: 182-183.
- ***dissimulans** Timberlake. Calif. (Tulare Co.). On flowers of *Calandrinia*
 and *Baeria*. (*Thysandrena*)
Andrena (Thysandrena) dissimulans Timberlake, 1951. U. S. Natl. Mus.
 Proc. 101: 408. ♀ ♂.
- ***duboisii** Timberlake. North. Calif. On flowers of *Baeria*. (*Hesperandrena*)
Andrena (Hesperandrena) duboisii Timberlake, 1951. U. S. Natl. Mus.
 Proc. 101: 390. ♀ ♂.
- erigeniae** Robertson. N. C.
- erigenoides** (Viereck). Change spelling in sp. heading and orig. cit. from
erigenioides to *erigenoides*.
- erythronii** Robertson. On flowers of *Erythronium*, *Quercus*, *Prunus*,
Taraxacum, *Malus*.
 Taxonomy: Michener, 1953. Kans. Univ. Sci. Bul. 35: 1035, figs. 88-91
 (larva).
 Biology: Michener and Rettenmeyer, 1956. Kans. Univ. Sci. Bul.
 37: 645-679, figs. 1-20.

- ***essigi** Timberlake. South. Calif. On flowers of *Layia*, *Baeria*, *Cryptantha*, *Sisymbrium*. (*Stenandrena*)
Andrena (Stenandrena) essigi Timberlake, 1951. U. S. Natl. Mus. Proc. 101: 384. ♀ ♂.
- flandersi** Timberlake. Carrying pollen of *Oenothera*. Transf. from (*Melandrena*) to (*Onagrاندrena*).
 Biology: Linsley and MacSwain, 1956. Pan-Pacific Ent. 32: 118-120.
- forbesii** Robertson. N. C.
- foxii** Cockerell. On flowers of *Oenothera*. Transf. from (*Diandrena*) to (*Onagrاندrena*).
 Biology: Linsley and MacSwain, 1956. Pan-Pacific Ent. 32: 120-121.
- frigida** Smith. Mass., Minn.
Andrena moesta Smith, n. syn. (teste T. B. Mitchell, based on exam. of types).
Andrena cockerelli Graenicher, n. syn. (teste T. B. Mitchell, based on exam. of type).
- fulvipennis** Smith. N. C.
- geranii** Robertson. Minn.
- geranii-maculati** Viereck. Mass.
- grandior** Cockerell. Syn. of *miranda* Smith.
- grundeli bernardina** Linsley, changed status. South. Calif.
Andrena bernardina Linsley. Reduced to subsp. rank (teste Linsley and MacSwain, 1955. Pan-Pacific Ent. 31: 166).
- grundeli grundeli** Linsley, changed status. North. Calif.
Andrena grundeli Linsley. Reduced to subsp. rank (teste Linsley and MacSwain, 1955. Pan-Pacific Ent. 31: 166).
- ***haroldi** Timberlake. Calif. On flowers of *Baeria*. (*Micrandrena*)
Andrena (Micrandrena) haroldi Timberlake, 1951. U. S. Nat. Mus. Proc. 101: 398. ♀ ♂.
- ***isocomae** Timberlake. Calif. On flowers of *Isocoma* and *Gutierrezia*. (*Pterandrena*)
Andrena (Pterandrena) isocomae Timberlake, 1951. U. S. Natl. Mus. Proc. 101: 378. ♀ ♂.
- ***lativentris** Timberlake. Calif. On flowers of *Baeria* and *Layia*. (*Hesperandrena*)
Andrena (Hesperandrena) lativentris Timberlake, 1951. U. S. Natl. Mus. Proc. 101: 388. ♀ ♂.
- ***layiae** Timberlake. Calif.; Baja Calif. On flowers of *Layia*. (*Ptilandrena*)
Andrena (Ptilandrena) layiae Timberlake, 1951. U. S. Natl. Mus. Proc. 101: 381. ♀.
- ***limnanthis** Timberlake. Calif. (Marin and Sonoma Counties). On flowers of *Limnanthes*. (*Hesperandrena*)
Andrena (Hesperandrena) limnanthis Timberlake, 1951. U. S. Natl. Mus. Proc. 101: 387. ♀ ♂.
- linsleyi** Timberlake. On flowers of *Oenothera*, *Baileya*, *Geraea*, and *Encelia*. Transf. from (*Melandrena*) to (*Onagrاندrena*).
- macoupinensis** Robertson. N. C.
- ***macra** Mitchell. N. C. (Raleigh). On flowers of *Rubus* (? *Gymnandrena*)
Andrena macra Mitchell, 1951. Elisha Mitchell Sci. Soc. Jour. 67: 246, figs. 1-3. ♀ ♂.
 Biology: Sivik, 1954. Ent. News 65: 253-255.
- melliventris** Cresson. Kans.
- micranthophila** Cockerell. Syn. of *anograe* Cockerell.

- microchlora microchlora** Cockerell, changed status. Colo.
Andrena microchlora Cockerell of Catalog, in part. Reduced to subsp. rank (*teste* Timberlake, 1951. U. S. Natl. Mus. Proc. 101: 397).
- microchlora subalia** Cockerell, changed status. Wash., Oreg., Calif. On flowers of *Taraxacum*.
Andrena microchlora Cockerell of Catalog, in part. *Andrena microchlora* var. *subalia*, a subsp. of *microchlora*, not a syn. (*teste* Timberlake, 1951. U. S. Natl. Mus. Proc. 101: 397).
- miranda** Smith.
Andrena grandior Cockerell, n. syn. (*teste* T. B. Mitchell based on exam. of type of *miranda*).
- *misella** Timberlake. Calif. On flowers of *Amsinckia* and *Brassica*. (*? Gymnandrena*)
Andrena misella Timberlake, 1951. U. S. Natl. Mus. Proc. 101: 410. ♀.
- miserabilis** Cresson. On flowers of *Cercis*, *Prunus*, *Malus*, *Pyrus*, *Spiraea*, *Viburnum*. Replaces *bipunctata* Cresson by rule of first reviser. Biology: Michener and Rettenmeyer, 1956. Kans. Univ. Sci. Bul. 37: 679-681, fig. 21.
- moesta** Smith. Syn. of *frigida* Smith.
- *mojavensis** Linsley and MacSwain. Calif. (near Inyokern). On flowers of *Oenothera*. Transf. from (*Melandrena*) to (*Onagrandrena*).
Andrena (Melandrena) mojavensis Linsley and MacSwain, 1955. Pan-Pacific Ent. 31: 171. ♀ ♂.
 Biology: Linsley and MacSwain, 1955. Pan-Pacific Ent. 31: 179-181.
- nitidicornis** Cockerell. On flowers of *Salix* and *Ceanothus*.
 Taxonomy: Timberlake, 1951. U. S. Natl. Mus. Proc. 101: 396.
- nuda** Robertson. N. C.
- oenotherae** Timberlake. On flowers of *Oenothera*, *Layia*, *Hemizonia*, *Sisymbrium*, *Encelia*, *Lantana*, *Calandrinia*. Transf. from (*Melandrena*) to (*Onagrandrena*).
 Biology: Linsley and MacSwain, 1955. Pan-Pacific Ent. 31: 181-182.—
 Linsley and MacSwain, 1956. Pan-Pacific Ent. 32: 116-118, 1 fig.
- omninigra** Viereck. Transf. from (*Melandrena*) to (*Onagrandrena*).
- *opacella** Timberlake. Calif. (Mt. Hamilton Range). (*Simandrena*)
Andrena (Simandrena) opacella Timberlake, 1951. U. S. Natl. Mus. Proc. 101: 406. ♀.
- pallidifovea** (Viereck). Utah. On flowers of *Ericameria*, *Helianthus*, *Layia*, *Chaenactis*, and *Eriophyllum*.
 Taxonomy: Timberlake, 1951. U. S. Natl. Mus. Proc. 101: 383. ♂.
- *palpalis** Timberlake. South. Calif. On flowers of *Phacelia*, *Calandrinia*, *Cryptantha*. (*Andrena*)
Andrena (Andrena) palpalis Timberlake, 1951. U. S. Natl. Mus. Proc. 101: 400. ♀ ♂.
- papagorum** Viereck and Cockerell. Calif.
- perplexa** Smith.
Andrena belfragei Cresson, n. syn. (*teste* T. B. Mitchell, based on exam. of types).
- phenax** Cockerell. (*? Onagrandrena*)
- piperi** Viereck. Utah.
 Taxonomy: Timberlake, 1951. U. S. Natl. Mus. Proc. 101: 392. ♂.
- *plumiscopa** Timberlake. South. Calif. On flowers of *Cryptantha* and *Platystemon*. (*Pterandrena*)
Andrena (Pterandrena) plumiscopa Timberlake, 1951. U. S. Natl. Mus. Proc. 101: 376. ♀ ♂.
- politissima** Cockerell. Calif.

prima Casad. Transf. from (*Melandrena*) to (*Onagrandrena*).

***radialis** Timberlake. South. Calif. On flowers of *Salix*, *Sisymbrium*, *Brassica*, *Capsella*, *Alyssum*, *Sedum*, *Taraxacum*, *Sonchus*, *Baccharis*. (*Micrandrena*)

Andrena (Micrandrena) radialis Timberlake, 1951. U. S. Natl. Mus. Proc. 101: 395. ♂ ♀.

robertsoni Dalla Torre. N. C.

***rozeni** Linsley and MacSwain. South. Calif. On flowers of *Oenothera*. Transf. from (*Melandrena*) to (*Onagrandrena*).

Andrena (Melandrena) rozeni Linsley and MacSwain, 1955. Pan-Pacific Ent. 31: 168. ♀ ♂.

rubrotincta Linsley. Transf. from (*Melandrena*) to (*Onagrandrena*).

sayi Robertson. N. C.

scurra montrosensis Viereck and Cockerell. Change spelling in sp. heading from *monstrosensis* to *montrosensis*.

semirufa Cockerell. N. C.

sigmundi Cockerell. Maine.

sola Viereck. Change *ensenadana* Cockerell to *ensenadensis*.

spiraean Robertson. N. C.

stictigstra Viereck. Change spelling in sp. heading and orig. cit. from *stictogastra* to *stictigstra*. (? *Onagrandrena*)

***subdepressa** Timberlake. Calif. On flowers of *Brassica*. (*Thysandrena*)
Andrena (Thysandrena) subdepressa Timberlake, 1951. U. S. Natl. Mus. Proc. 101: 407. ♀ ♂.

subtilis subtilis Smith. Calif.

surda Cockerell. N. Mex.

trevoris Cockerell. Oreg., Calif.

Taxonomy: Timberlake, 1951. U. S. Natl. Mus. Proc. 101: 380. ♀.

tridens Robertson. N. C.

Andrena cornelli Viereck, n. syn. (*teste* T. B. Mitchell, based on exam. of types).

vanduzeei Linsley. Transf. from (*Melandrena*) to (*Onagrandrena*).

***vexabilis** Timberlake. North. Calif. On flowers of *Baeria*. (*Stenandrena*)
Andrena (Stenandrena) vexabilis Timberlake, 1951. U. S. Natl. Mus. Proc. 101: 385. ♀ ♂.

viburnella Graenicher. N. C.

violae Robertson. N. C.

wellesleyana Robertson. Minn.

Genus **ANCYLANDRENA** Cockerell, p. 1086

Reduced to subgeneric rank under *Megandrena* Cockerell by Lanham, 1949, Univ. Calif. Pubs. Ent. 8: 192.

***koebelei** Timberlake. Calif. (Panamint Valley).

Megandrena (Ancylandrena) koebelei Timberlake, 1951. U. S. Natl. Mus. Proc. 101: 413. ♂.

***larreae** Timberlake. South. Calif. On flowers of *Larrea*.

Megandrena (Ancylandrena) larreae Timberlake, 1951. U. S. Natl. Mus. Proc. 101: 411. ♀ ♂.

PSAENYTHIA subgenus **PROTANDRENA** Cockerell, p. 1087

Taxonomy: Timberlake, 1955. Bol. Lab. Zool. Gen. Agr. 33: 398-409 (key to females).

asclepiadis (Cockerell). Syn. of *mexicanorum mexicanorum* (Cockerell).
bancrofti (Dunning). Tex., Kans., Nebr., Iowa, N. Dak.

**bicolor* Timberlake. Ariz. (Willcox).

Psaenythia bicolor Timberlake, 1955. Bol. Lab. Zool. Gen. Agr. 33: 401. ♀.

cockerelli (Dunning). A subsp. of *mexicanorum* (Cockerell).

**duplonotata* Timberlake. Ariz. (Pinal Co.).

Psaenythia duplonotata Timberlake, 1955. Bol. Lab. Zool. Gen. Agr. 33: 407. ♀.

**euphorbiae* Timberlake. Ariz. (Picacho Pass). On flowers of *Euphorbia*.

Psaenythia euphorbiae Timberlake, 1955. Bol. Lab. Zool. Gen. Agr. 33: 406. ♀.

heteromorpha (Cockerell). Ariz. On flowers of *Verbesina*, *Heterotheca*, *Gutierrezia*.

mexicanorum cockerelli (Dunning), changed status.

Psaenythia (Protandrena) cockerelli (Dunning). Reduced to subsp. rank (*teste* Timberlake, 1955. Bol. Lab. Zool. Gen. Agr. 33: 400).

mexicanorum mexicanorum (Cockerell), changed status. On flowers of *Solanum*, *Kallstroemia*, *Asclepias*.

Psaenythia (Protandrena) mexicanorum (Cockerell). Reduced to subsp. rank (*teste* Timberlake, 1955. Bol. Lab. Zool. Gen. Agr. 33: 400).

Andrena asclepiadis Cockerell (syn. by Timberlake, *loc. cit. supra*).

**pectidis* Timberlake. Ariz. On flowers of *Pectis* and *Viguiera*.

Psaenythia pectidis Timberlake, 1955. Bol. Lab. Zool. Gen. Agr. 33: 405. ♀.

trifoliata (Cockerell). Ariz. (Portal). On flowers of *Solanum*.

**verbesinae* Timberlake. Ariz. (Cochise Co.) On flowers of *Verbesina*.

Psaenythia verbesinae Timberlake, 1955. Bol. Lab. Zool. Gen. Agr. 33: 402. ♀ ♂.

Genus PERDITA Smith, pp. 1087-1097

**Perdita* subg. *Pseudomacrotera* Timberlake, 1954. Calif. Univ. Pubs. Ent. 9: 349.

Type: *Perdita turgiceps* Timberlake. Orig. desig.

**Perdita* subg. *Macroterella* Timberlake, 1954. Calif. Univ. Pubs. Ent. 9: 360.

Type: *Perdita mortuaria* Timberlake. Orig. desig.

**Perdita* subg. *Heteroperdita* Timberlake, 1954. Calif. Univ. Pubs. Ent. 9: 365.

Type: *Perdita rhodogastra* Timberlake. Orig. desig.

**Perdita* subg. *Hesperoperdita* Timberlake, 1954. Calif. Univ. Pubs. Ent. 9: 374.

Type: *Perdita ruficauda* Cockerell. Orig. desig.

**Perdita* subg. *Epimacrotera* Timberlake, 1954. Calif. Univ. Pubs. Ent. 9: 377.

Type: *Perdita ainsliei* Crawford. Orig. desig.

**Perdita* subg. *Procockerellia* Timberlake, 1954. Calif. Univ. Pubs. Ent. 9: 402.

Type: *Perdita albonotata* Timberlake. Orig. desig.

**Perdita* subg. *Xeromacrotera* Timberlake, 1954. Calif. Univ. Pubs. Ent. 9: 412.

Type: *Macrotera cephalotes* Cresson. Orig. desig.

**Perdita* subg. *Hexaperdita* Timberlake, 1954. Calif. Univ. Pubs. Ent. 9: 416.

Type: *Perdita ignota* Cockerell. Orig. desig.

**Perdita* subg. *Pygoperdita* Timberlake, 1956. Calif. Univ. Pubs. Ent. 11: 275.

Type: *Perdita interrupta* Cresson. Orig. desig.

Revision: Timberlake, 1954. Calif. Univ. Pubs. Ent. 9: 345-432, 172 figs. (all subgenera except *Hexaperdita* Timberlake, *Perditella* Cockerell, *Alloperdita* Viereck, and typical *Perdita* Smith).—Timberlake, 1956. Calif. Univ. Pubs. Ent. 11: 247-350, figs. 173—367 (treats subgenera *Alloperdita* Viereck, *Perditella* Cockerell, *Hexaperdita* Timberlake, and *Pygoperdita* Timberlake).

ainsliei Crawford. (*Epimacrotera*)

Taxonomy: Timberlake, 1954. Calif. Univ. Pubs. Ent. 9: 379, figs. 55, 56, 144.

**albihirta* *albihirta* Timberlake. South. Calif. On flowers of *Geraea* and *Melilotus*. (*Cockerellia*)

Perdita albihirta albihirta Timberlake, 1954. Calif. Univ. Pubs. Ent. 9: 395, fig. 79. ♀ ♂.

**albihirta geraeae* Timberlake. Calif., Nev. On flowers of *Geraea*, *Acamptopappus*, and *Larrea*. (*Cockerellia*)

Perdita albihirta geraeae Timberlake, 1954. Calif. Univ. Pubs. Ent. 9: 396. ♀ ♂.

albipennis albipennis Cresson. N. Dak. to Tex., west to Idaho and Ariz. On flowers of *Helianthus*. (*Cockerellia*)

Perdita albipennis helianthi Cockerell. Syn. by Timberlake, 1954. Calif. Univ. Pubs. Ent. 9: 400, figs. 87, 159.

albipennis helianthi Cockerell. Syn. of *albipennis albipennis* Cresson.

albipennis hyalina Cresson. Raised to sp. rank.

**albonotata* Timberlake. South. Calif. On flowers of *Stephanomeria* and *Eriogonum*. (*Procockerellia*)

Perdita albonotata Timberlake, 1954. Calif. Univ. Pubs. Ent. 9: 403, figs. 91, 92, 161. ♀ ♂.

albovittata Cockerell. Mexico (Chihuahua, Coahuila, Durango). On flowers of *Verbesina*, *Baileya*, *Aplopappus*, *Heterotheca*, *Gutierrezia*, *Isocoma*, *Pectis*, *Cevallia*, *Coldenia*, and *Physalis*. (*Pentaperdita*)

Taxonomy: Timberlake, 1954. Calif. Univ. Pubs. Ent. 9: 411, figs. 105, 106, 168.

amoena Timberlake. Ariz. (Cochise Co.). (*Pentaperdita*)

Perdita amoena Timberlake, 1956. Calif. Univ. Pubs. Ent. 11: 330, figs. 287, 288, 336. ♂.

arcuata dinognatha Cockerell, changed status. Nev., Ariz. On flowers of *Sphaeralcea*, *Eriogonum*, *Encelia*. Typical *arcuata* Fox occurs in Baja Calif. (*Macroteropsis*)

Perdita dinognatha Cockerell. Reduced to subsp. rank (*teste* Timberlake, 1953. Kans. Univ. Sci. Bul. 35: 968).

Taxonomy: Timberlake, 1954. Calif. Univ. Pubs. Ent. 9: 359, figs. 21, 22, 126.

**arenaria* Timberlake. Calif. (Colo. Desert). On flowers of *Coldenia*. (*Heteroperdita*)

Perdita arenaria Timberlake, 1954. Calif. Univ. Pubs. Ent. 9: 368, figs. 39, 40, 135. ♂ ♀.

**argemones* Timberlake. Ariz. On flowers of *Argemone*. (*Pygoperdita*)

Perdita argemones Timberlake, 1956. Calif. Univ. Pubs. Ent. 11: 309, figs. 261, 262, 327, 358. ♀ ♂.

**arizonica* Timberlake. Ariz. (Oak Creek Canyon). (*Pygoperdita*)

Perdita arizonica Timberlake, 1956. Calif. Univ. Pubs. Ent. 11: 310, figs. 263, 264, 328, 359. ♀ ♂.

asteris Cockerell. Tex. (*Hexaperdita*)

aureovittata aureovittata Cockerell, changed status. South Calif. (Riverside and Los Angeles Counties). On flowers of *Malacothrix*, *Layia*. (*Pygoperdita*)

- Perdita aureovittata* Cockerell. Reduced to subsp. rank (*teste* Timberlake, 1956. Calif. Univ. Pubs. Ent. 11: 285, figs. 221, 222, 311, 337).
- **aureovittata maderensis* Timberlake. South. Calif. (Madera, Santa Barbara, and Kern Counties). On flowers of *Malacothrix*. (*Pygoperdita*)
- Perdita aureovittata maderensis* Timberlake, 1956. Calif. Univ. Pubs. Ent. 11: 286. ♀ ♂.
- **aureovittata stenozone* Timberlake. Calif. (San Benito Co.). (*Pygoperdita*)
- Perdita aureovittata stenozone* Timberlake, 1956. Calif. Univ. Pubs. Ent. 11: 286. ♀ ♂.
- baileyae* Cockerell. Syn. of *perpulehria perpulehria* Cockerell.
- beata* Cockerell. Tex. (El Paso). (*Cockerellia*)
- **bebbiae* Timberlake. Calif. (San Diego Co.). On flowers of *Bebbia*. (*Hexaperdita*)
- Perdita bebbiae* Timberlake, 1956. Calif. Univ. Pubs. Ent. 11: 255, figs. 179, 180, 292. ♀ ♂.
- **bellula* Timberlake. Calif. (Colo. Desert). On flowers of *Coldenia*. (*Heteroperdita*)
- Perdita bellula* Timberlake, 1954. Calif. Univ. Pubs. Ent. 9: 369, figs. 41, 42, 136. ♂ ♀.
- bequaerti bequaerti* Viereck, changed status. N. J., N. C., Ga., Ala., Miss. (*Cockerellia*)
- Perdita bequaerti* Viereck of Catalog, in part (*teste* Timberlake, 1954. Calif. Univ. Pubs. Ent. 9: 397, figs. 80, 157).
- bequaerti indianensis* Cockerell, changed status. Ind., Okla. (*Cockerellia*)
- Perdita lacteipennis indianensis* Cockerell. Incorrectly placed under *lacteipennis* (*teste* Timberlake, 1952. Ent. Soc. Wash. Proc. 54: 204).
- Perdita bequaerti* Viereck of Catalog, in part (*Perdita wickhami* Cockerell is a syn. of *bequaerti indianensis*, *teste* Timberlake, *loc. cit. supra*).
- bequaertiana* Cockerell. On flowers of *Oenothera*. (*Xerophasma*)
- Taxonomy: Timberlake, 1953. Kans. Univ. Sci. Bul. 35: 962.—Timberlake, 1954. Calif. Univ. Pubs. Ent. 9: 349, figs. 1, 2, 115.
- **bidenticauda* Timberlake. Tex. (Big Bend Park). On flowers of *Opuntia*. (*Cockerellula*)
- Perdita bidenticauda* Timberlake, 1953. Kans. Univ. Sci. Bul. 35: 965. ♂ ♀.
- Taxonomy: Timberlake, 1954. Calif. Univ. Pubs. Ent. 9: 356, figs. 13, 14, 122.
- **bilobata* Timberlake. Calif. (Inyo and San Bernardino Counties). On flowers of *Calochortus*, *Ericameria*. (*Pygoperdita*)
- Perdita bilobata* Timberlake, 1956. Calif. Univ. Pubs. Ent. 11: 305, figs. 253, 254, 354. ♀ ♂.
- **binotata* Timberlake. Ariz.; Baja Calif. On flowers of *Physalis*. (*Epimacrotera*)
- Perdita binotata* Timberlake, 1954. Calif. Univ. Pubs. Ent. 9: 385, figs. 73, 74, 153. ♀ ♂.
- bishoppi bishoppi* Cockerell, changed status. Gulf Coast from Tex. to Fla., Ga., S. C. On flowers of *Isopappus*. (*Hexaperdita*)
- Perdita bishoppi* Cockerell. Reduced to subsp. rank (*teste* Timberlake, 1956. Calif. Univ. Pubs. Ent. 11: 261, figs. 193, 194, 299).
- **bishoppi planorum* Timberlake. Kans., Tex. On flowers of *Heterotheca*, *Isopappus*. (*Hexaperdita*)
- Perdita bishoppi planorum* Timberlake, 1956. Calif. Univ. Pubs. Ent. 11: 261. ♀ ♂.
- **bispinata* Timberlake. Calif. (San Bernardino and Riverside Counties). On flowers of *Calochortus*, *Ericameria*. (*Pygoperdita*)

- Perdita bispinata* Timberlake, 1956. Calif. Univ. Pubs. Ent. 11: 303, figs. 249, 250, 323, 352. ♀ ♂.
- **blaisdelli* Timberlake. Calif. (Calaveras Co.). (*Glossoperdita*)
Perdita blaisdelli Timberlake, 1954. Calif. Univ. Pubs. Ent. 9: 373. ♀.
- **blatchleyi* Timberlake. Fla. (Dunedin). (*Hexaperdita*)
Perdita blatchleyi Timberlake, 1952. Ent. Soc. Wash. Proc. 54: 201. ♀.
- **bohartorum* Timberlake. Calif. (Mono Co.). (*Pygoperdita*)
Perdita bohartorum Timberlake, 1956. Calif. Univ. Pubs. Ent. 11: 319, figs. 275, 276, 365. ♀ ♂.
- boltoniae boltoniae* (Robertson), changed status. Ill., La., Miss. (*Hexaperdita*)
Perdita boltoniae (Robertson). Reduced to subsp. rank (*teste* Timberlake, 1956. Calif. Univ. Pubs. Ent. 11: 265).
- boltoniae chrysopsina* Timberlake, changed status. N. Y. to Fla. (*Hexaperdita*)
Perdita chrysopsina Timberlake. Reduced to subsp. rank (*teste* Timberlake, 1956. Calif. Univ. Pubs. Ent. 11: 265, figs. 199, 200, 302).
- **bradleyana* Timberlake. Tex. (El Paso). (*Pentaperdita*)
Perdita bradleyana Timberlake, 1954. Calif. Univ. Pubs. Ent. 9: 409, figs. 99, 100, 165. ♂.
 Taxonomy: Timberlake, 1956. Calif. Univ. Pubs. Ent. 11: 329. ♀.
- californica* (Cresson). Coastal Calif., Mt. Diablo, south; Mexico (Baja Calif.). On flowers of *Calochortus*, *Cryptantha*, *Eriogonum*, *Eriodictyon*, *Opuntia*. (*Pygoperdita*)
- callicerata* Cockerell. Tex. to south. Calif.; Mexico (Chihuahua, Durango). On flowers of *Dithyrea*, *Isocoma*, *Baileya*, *Baccharis*. (*Hexaperdita*)
Perdita lutzii Cockerell (syn. by Timberlake, 1956. Calif. Univ. Pubs. Ent. 11: 255, figs. 181, 182, 293).
- **calochorti* Timberlake. Calif. (San Bernardino and Inyo Counties). On flowers of *Calochortus*. (*Pygoperdita*)
Perdita calochorti Timberlake, 1956. Calif. Univ. Pubs. Ent. 11: 299, figs. 239, 240, 320, 347. ♀ ♂.
- cambarella cambarella* Cockerell, changed status. On flowers of *Isopappus*, *Croptilon*. (*Hexaperdita*)
Perdita cambarella Cockerell. Reduced to subsp. rank (*teste* Timberlake, 1956. Calif. Univ. Pubs. Ent. 11: 256).
- cambarella platyura* Cockerell, changed status. On flowers of *Isopappus*, *Heterotheca*. (*Hexaperdita*)
Perdita platyura Cockerell. Reduced to subsp. rank (*teste* Timberlake, 1956. Calif. Univ. Pubs. Ent. 11: 257, figs. 183, 184, 294).
- **carolina* Timberlake. N. C., Tex. On flowers of *Batodendron*, *Diospyros*, *Stillingia*. (*Alloperdita*)
Perdita carolina Timberlake, 1952. Ent. Soc. Wash. Proc. 54: 199. ♀ ♂.
- cephalotes* (Cresson). Calif. (Morongo). On flowers of *Gutierrezia*. (*Xeromacrotera*)
 Taxonomy: Timberlake, 1954. Calif. Univ. Pubs. Ent. 9: 413, figs. 109, 110, 170.
- chrysophila* Cockerell. (*Pentaperdita*)
 Taxonomy: Timberlake, 1954. Calif. Univ. Pubs. Ent. 9: 406, figs. 93, 94, 162.
- chrysopsina* Timberlake. A subsp. of *boltoniae* (Robertson).
- citrinella* Graenicher. A subsp. of *perpallida* Cockerell.
- cladothricis* Cockerell. West. Tex.; Ariz.; Mexico (Baja Calif., Sonora, Zacatecas). (*Perditella*)

- **coahuilensis* Timberlake. Tex. (El Paso); Mexico (Coahuila). (*Pentaperdita*)
Perdita coahuilensis Timberlake, 1954. Calif. Univ. Pubs. Ent. 9: 409, figs. 101, 102, 166. ♀ ♂.
- **coalingensis* Timberlake. Calif. (Coalinga). On flowers of *Eschscholtzia*. (*Pygoperdita*)
Perdita coalingensis Timberlake, 1956. Calif. Univ. Pubs. Ent. 11: 313. ♀.
- **coldeniae* Timberlake. Calif. (Colo. Desert). On flowers of *Coldenia* and *Pectis*. (*Heteroperdita*)
Perdita coldeniae Timberlake, 1954. Calif. Univ. Pubs. Ent. 9: 368, figs. 37, 38, 134. ♂ ♀.
- consobrina consobrina* Timberlake, changed status. N. C. On flowers of *Chrysopsis*.
Perdita consobrina Timberlake. Reduced to subsp. rank (*teste* Timberlake, 1952. Ent. Soc. Wash. Proc. 54: 202).
- **consobrina lepida* Timberlake. Fla. (Dunedin, Lake Worth).
Perdita consobrina lepida Timberlake, 1952. Ent. Soc. Wash. Proc. 54: 203. ♀ ♂.
- coreopsidis collaris* Cockerell, changed status. N. Mex.; Mexico (Chihuahua). (*Cockerellia*)
Perdita verbesinae collaris Cockerell. Incorrectly placed under *verbesinae* Cockerell (*teste* Timberlake, 1954. Calif. Univ. Pubs. Ent. 9: 401. ♂ ♀).
- coreopsidis coreopsidis* Cockerell, changed status. Kans., Tex.; Mexico (Coahuila). On flowers of *Gaillardia* and *Monarda*. (*Cockerellia*)
Perdita coreopsidis Cockerell. Reduced to subsp. rank (*teste* Timberlake, 1953. Kans. Univ. Sci. Bul. 35: 983).
- **coreopsidis kansensis* Timberlake. Kans., Tex. On flowers of *Gaillardia*. (*Cockerellia*)
Perdita coreopsidis kansensis Timberlake, 1953. Kans. Univ. Sci. Bul. 35: 984. ♀ ♂.
- **coreopsidis obscurior* Timberlake. Gulf Coast of Tex. On flowers of *Gaillardia*. (*Cockerellia*)
Perdita coreopsidis obscurior Timberlake, 1953. Kans. Univ. Sci. Bul. 35: 984. ♀ ♂.
- **cowaniae* Timberlake. Calif. (Inyo Co.). On flowers of *Cowania*, *Calochortus*. (*Pygoperdita*)
Perdita cowaniae Timberlake, 1956. Calif. Univ. Pubs. Ent. 11: 315, figs. 269, 270, 331, 362. ♀ ♂.
- crassiceps* Cockerell. (*Hexaperdita*)
- crawfordi* Cockerell. A subsp. of *ignota* Cockerell.
- dinognatha* Cockerell. A subsp. of *arcuata* Fox.
- **discreta* Timberlake. N. C. (Holly Shelter).
Perdita discreta Timberlake, 1954. Ent. News 65: 14. ♀.
- **distropica* Timberlake. Calif. (Monterey, San Benito, and Santa Clara Counties). On flowers of *Calochortus*, *Eschscholtzia*, *Eriogonum*. (*Pygoperdita*)
Perdita distropica Timberlake, 1956. Calif. Univ. Pubs. Ent. 11: 312, figs. 265, 266, 329, 360. ♀ ♂.
- **diversa* Timberlake. Tex. (El Paso); Mexico (Coahuila, Nuevo Leon). On flowers of *Coldenia*. (*Epimacrotera*)
Perdita diversa Timberlake, 1954. Calif. Univ. Pubs. Ent. 9: 384, figs. 69, 70, 151. ♂ ♀.
- **duplonotata* Timberlake. Utah, Nev. On flowers of *Fallugia*. (*Pygoperdita*)
Perdita duplonotata Timberlake, 1956. Calif. Univ. Pubs. Ent. 11: 307, figs. 257, 258, 356. ♀ ♂.

- ***echinocacti** Timberlake. Ariz.; Mexico (Sonora). On flowers of *Echinocactus* and *Kallstroemia*. (**Macroteropsis**)
Perdita echinocacti Timberlake, 1954. Calif. Univ. Pubs. Ent. 9: 360, figs. 25, 26, 128. ♂ ♀.
- erigoni** Cockerell. On flowers of *Eriogonum*. (**Pygoperdita**)
- ***euphorbiae** Timberlake. Ariz. (Picacho Pass). On flowers of *Euphorbia*. (**Epimacrotera**)
Perdita euphorbiae Timberlake, 1954. Calif. Univ. Pubs. Ent. 9: 380, figs. 59, 60, 146. ♀ ♂.
- ***fallugiae** Timberlake. Nev. (Charleston Mts.). On flowers of *Fallugia*, *Hymenoxys*, *Calochortus*. (**Pygoperdita**)
Perdita fallugiae Timberlake, 1956. Calif. Univ. Pubs. Ent. 11: 314, figs. 267, 268, 330, 361. ♀ ♂.
- fedorensis** Cockerell. (**Hexaperdita**)
- ***fieldi** Timberlake. South. Calif. On flowers of *Adenostoma*, *Eriogonum*, *Calochortus*. (**Pygoperdita**)
Perdita fieldi Timberlake, 1956. Calif. Univ. Pubs. Ent. 11: 291, figs. 227, 228, 315, 340. ♀ ♂.
- floridensis** Timberlake. N. C. On flowers of *Batodendron*. (**Alloperdita**)
- ***foveata brachycephala** Timberlake. Tex. On flowers of *Aphanostephus*, *Coreopsis*, *Aster*. (**Hexaperdita**)
Perdita foveata brachycephala Timberlake, 1956. Calif. Univ. Pubs. Ent. 11: 266. ♀ ♂.
- ***foveata foveata** Timberlake. Ark., Kans. (**Hexaperdita**)
Perdita foveata foveata Timberlake, 1956. Calif. Univ. Pubs. Ent. 11: 265, figs. 201, 202, 303. ♀ ♂.
- ***foveata persimilis** Timberlake. N. Mex. (Chaves Co.). (**Hexaperdita**)
Perdita foveata persimilis Timberlake, 1956. Calif. Univ. Pubs. Ent. 11: 267. ♀ ♂.
- ***fracticincta** Timberlake. Tex. (Sarita). On flowers of *Coreopsis*. (**Cockerellia**)
Perdita fracticincta Timberlake, 1953. Kans. Univ. Sci. Bul. 35: 976. ♀.
- georgica** Timberlake. S. C., N. C. On flowers of *Aster*, *Chrysopsis*. (**Hexaperdita**)
- gerhardi monardae** Viereck, changed status.
Perdita monardae Viereck. Reduced to subsp. rank (*teste* Timberlake, 1952. Ent. Soc. Wash. Proc. 54: 204).
- ***giliae** Timberlake. Ariz. On flowers of *Gilia*. (**Glossoperdita**)
Perdita giliae Timberlake, 1954. Calif. Univ. Pubs. Ent. 9: 374, figs. 51, 52, 141. ♀ ♂.
- graenicheri** Timberlake. On flowers of *Chrysopsis*. (**Hexaperdita**)
- heliophila** Cockerell. Utah. On flowers of *Helianthus*. (**Cockerellia**)
 Taxonomy: Timberlake, 1954. Calif. Univ. Pubs. Ent. 9: 397, figs. 82, 83, 158.
- heterothecae** Cockerell. Mexico (Baja Calif.). On flowers of *Aster*, *Gutierrezia*. (**Hexaperdita**)
- ***hurdi** Timberlake. South. Calif., Ariz. On flowers of *Proboscidea*. (**Glossoperdita**)
Perdita hurdi Timberlake, 1956. Calif. Univ. Pubs. Ent. 11: 324, figs. 283, 284, 335. ♀ ♂.
- hyalina** Cresson, changed status. (**Cockerellia**)
Perdita albipennis hyalina Cresson. Raised to sp. rank (*teste* Timberlake, 1954. Calif. Univ. Pubs. Ent. 9: 397).
- ignota crawfordi** Cockerell, changed status. Colo., Nebr., Kans., Okla., Mo. On flowers of *Grindelia*, *Heterotheca*, *Isopappus*, *Prionopsis*, *Sideranthus*, *Chrysopsis*. (**Hexaperdita**)

- Perdita crawfordi*** Cockerell. Reduced to subsp. rank (*teste* Timberlake, 1956. Calif. Univ. Pubs. Ent. 11: 262, figs. 195, 196, 300).
- ignota ignota** Cockerell, changed status. Colo., Ariz., Tex.; Mexico (Chihuahua). On flowers of *Erigeron*, *Heterotheca*, *Chrysopsis*, *Solidago*, *Baccharis*. (***Hexaperdita***)
- Perdita ignota*** Cockerell. Reduced to subsp. rank (*teste* Timberlake, 1956. Calif. Univ. Pubs. Ent. 11: 262).
- ignota isopappi** Timberlake, changed status. East. Tex., La. On flowers of *Isopappus*, *Chrysopsis*, *Heterotheca*, *Aster*, *Chrysanthemum*, *Aphanostephus*, *Xanthisma*, *Prionopsis*, *Grindelia*, *Helenium*. (***Hexaperdita***)
- Perdita isopappi*** Timberlake. Reduced to subsp. rank (*teste* Timberlake, 1956. Calif. Univ. Pubs. Ent. 11: 263).
- *inflexa** Timberlake. Calif. (Riverside Co.). On flowers of *Eschscholtzia*. (***Pygoperdita***)
- Perdita inflexa*** Timberlake, 1956. Calif. Univ. Pubs. Ent. 11: 298, figs. 237, 238, 345, 346. ♂.
- interrupta interrupta** Cresson, changed status. Calif. (Los Angeles, Riverside and San Bernardino Counties). On flowers of *Eschscholtzia*, *Cryptantha*. (***Pygoperdita***)
- Perdita interrupta*** Cresson. Reduced to subsp. rank (*teste* Timberlake, 1956. Calif. Univ. Pubs. Ent. 11: 292, figs. 229, 230, 316, 341).
- *interrupta kernensis** Timberlake. Calif. (Kern Co.). On flowers of *Cryptantha*. (***Pygoperdita***)
- Perdita interrupta kernensis*** Timberlake, 1956. Calif. Univ. Pubs. Ent. 11: 293. ♀ ♂.
- *interrupta vernalis** Timberlake. Calif. (San Diego Co.). (***Pygoperdita***)
- Perdita interrupta vernalis*** Timberlake, 1956. Calif. Univ. Pubs. Ent. 11: 293. ♀ ♂.
- isopappi** Timberlake. A subsp. of **ignota** Cockerell.
- lacteipennis canadensis** Crawford. Utah. (***Cockerellia***)
- lacteipennis indianensis** Cockerell. A subsp. of **bequaerti** Viereck.
- lacteipennis lacteipennis** Swenk and Cockerell, changed status. Tex., Kans., N. Dak., Colo., Wyo. Remove ***Perdita pallidipennis***, a valid subsp., from syn. (***Cockerellia***)
- lacteipennis pallidipennis** Graenicher, changed status. Wis., Ill., east. Kans., and Nebr. (***Cockerellia***)
- Perdita lacteipennis lacteipennis*** Swenk and Cockerell of Catalog, in part. ***Perdita pallidipennis*** Graenicher a valid subsp. of **lacteipennis**, not a syn. of typical **lacteipennis** (*teste* Timberlake, 1953. Kans. Univ. Sci. Bul. 35: 978).
- larreae** Cockerell. South. Calif.; Mexico (Baja Calif., Coahuila, Chihuahua). On flowers of *Tamarix*, *Pectis*, *Euphorbia*, *Eriogonum*, *Croton*, *Dicraurus*, *Asclepias*. (***Perditella***)
- Perdita larrearum*** Cockerell (syn. by Timberlake, 1956. Calif. Univ. Pubs. Ent. 11: 268, figs. 203, 204, 304).
- larrearum** Cockerell. Syn. of **larreae** Cockerell.
- *laticauda** Timberlake. Tex. (Dryden); Mexico (Coahuila). On flowers of *Gilia* and *Chamaesaracha*. (***Cockerellula***)
- Perdita laticauda*** Timberlake, 1953. Kans. Univ. Sci. Bul. 35: 967. ♂ ♀. Taxonomy: Timberlake, 1954. Calif. Univ. Pubs. Ent. 9: 356, figs. 15, 16, 123.
- laticauda** Cockerell. Nev. On flowers of *Sida*. (***Macroteropsis***)
- Taxonomy: Timberlake, 1954. Calif. Univ. Pubs. Ent. 9: 359, figs. 23, 24, 127.
- *layiae excisa** Timberlake. South. Calif. On flowers of *Layia*, *Chaenactis*. (***Pygoperdita***)

Perdita layiae excisa Timberlake, 1956. Calif. Univ. Pubs. Ent. 11: 288.
♀ ♂.

layiae layiae Cockerell. (*Pygoperdita*)

lepachidis lepachidis Cockerell, changed status. Kans., Tex., Colo., N. Mex.
(*Cockerellia*)

Perdita lepachidis Cockerell. Reduced to subsp. rank (*teste* Timberlake, 1953. Kans. Univ. Sci. Bul. 35: 982).

**lepachidis levifrons* Timberlake. Tex. (Brownsville). (*Cockerellia*)

Perdita lepachidis levifrons Timberlake, 1953. Kans. Univ. Sci. Bul. 35: 983. ♀ ♂.

**leucostoma* Timberlake. Calif. (Inyo Co.). On flowers of *Calochortus*.
(*Pygoperdita*)

Perdita leucostoma Timberlake, 1956. Calif. Univ. Pubs. Ent. 11: 300, figs. 241, 242, 321, 348. ♀ ♂.

**lobata* Timberlake. Tex. (Hidalgo Co.). On flowers of *Opuntia*. (*Cockerellula*)

Perdita lobata Timberlake, 1953. Kans. Univ. Sci. Bul. 35: 967. ♂.
Taxonomy: Timberlake, 1954. Calif. Univ. Pubs. Ent. 9: 356, figs. 17, 18, 124.

lutzi Cockerell. Syn. of *callicerata* Cockerell.

macrostoma Cockerell. (*Pygoperdita*)

maculigera bilineata Timberlake, changed status. Ill.

Perdita maculipennis bilineata Timberlake. A subsp. of *maculigera*, not of *maculipennis* (*teste* Timberlake, 1952. Ent. Soc. Wash. Proc. 54: 204).

maculigera maculigera Cockerell, changed status.

Perdita maculigera Cockerell. Reduced to subsp. rank (*teste* Timberlake, 1952. Ent. Soc. Wash. Proc. 54: 204).

maculigera maculipennis Graenicher, changed status.

Perdita maculipennis maculipennis Graenicher. A subsp. of *maculigera* Cockerell (*teste* Timberlake, 1952. Ent. Soc. Wash. Proc. 54: 204).

**malacothricis* Timberlake. South. Calif. deserts, Nev. On flowers of *Mala-cothrix*, *Chaenactis*, *Stephanomeria*, *Larrea*, *Aster*. (*Pygoperdita*)

Perdita malacothricis Timberlake, 1956. Calif. Univ. Pubs. Ent. 11: 289, figs. 225, 226, 314, 339. ♀ ♂.

**mandibularis* Timberlake. South. Calif. On flowers of *Geraea*, *Chaenactis*, and *Dalea*. (*Pentaperdita*)

Perdita mandibularis Timberlake, 1954. Calif. Univ. Pubs. Ent. 9: 411, figs. 107, 108, 169. ♀ ♂.

marcialis Cockerell. West. Tex. to south. Calif., Nev.; Mexico (Coahuila, Sonora). On flowers of *Aloysia*, *Chrysothamnus*, *Eriogonum*. (*Perditella*)

melanochlora Cockerell. Calif., Nev. On flowers of *Encelia*, *Bebbia*, *Viguiera*, *Sphaeralcea*, *Baileya*. (*Pentaperdita*)

Taxonomy: Timberlake, 1954. Calif. Univ. Pubs. Ent. 9: 408, figs. 97, 98, 164. ♀ ♂.

**mellea* Timberlake. Ariz., Calif.; Baja Calif. On flowers of *Euphorbia*. (*Macroterella*)

Perdita mellea Timberlake, 1954. Calif. Univ. Pubs. Ent. 9: 364, figs. 33, 34, 132. ♂ ♀.

mellina Cockerell. N. Mex., Tex. (*Hexaperdita*)

**micheneri micheneri* Timberlake. South. Calif. On flowers *Rhamnus*, *Cryptantha*, *Ceanothus*. (*Pygoperdita*)

Perdita micheneri micheneri Timberlake, 1956. Calif. Univ. Pubs. Ent. 11: 294, figs. 231, 232, 317, 342. ♀ ♂.

- ***micheneri rhamnophila** Timberlake. Calif. (Rock Creek in San Gabriel Mts.) On flowers of *Rhamnus*. (*Pygoperdita*)
Perdita micheneri rhamnophila Timberlake, 1956. Calif. Univ. Pubs. Ent. 11: 295. ♂.
- minima** Cockerell. Mexico (Baja Calif.). (*Perditella*)
- mittelli** Timberlake. Ala. On flowers of *Cyrilla*. (*Alloperdita*)
- ***mohavensis** Timberlake. South. Calif. deserts. On flowers of *Eschscholtzia*, *Larrea*, *Chaenactis*, *Monardella*, *Hyptis*, *Salvia*. (*Pygoperdita*)
Perdita mohavensis Timberlake, 1956. Calif. Univ. Pubs. Ent. 11: 306, figs. 255, 256, 325, 355. ♀ ♂.
- monardae** Viereck. A subsp. of **gerhardi** Viereck.
- ***montereyensis** Timberlake. Calif. (Monterey Co.). On flowers of *Eschscholtzia*, *Calochortus*, *Eriogonum*. (*Pygoperdita*)
Perdita montereyensis Timberlake, 1956. Calif. Univ. Pubs. Ent. 11: 302, figs. 245, 246, 350. ♀ ♂.
- ***mormonica** Timberlake. Utah (Tooele Co.). On flowers of *Sphaeralcea*. (*Pygoperdita*)
Perdita mormonica Timberlake, 1956. Calif. Univ. Pubs. Ent. 11: 311. ♀.
- ***mortuaria** Timberlake. South. Calif., Ariz. On flowers of *Euclidia* and *Eschscholtzia*. (*Macroterella*)
Perdita mortuaria Timberlake, 1954. Calif. Univ. Pubs. Ent. 9: 362, figs. 27, 28, 129. ♂ ♀.
- ***mucronata** Timberlake. Calif. (Riverside Co.). On flowers of *Eschscholtzia*. (*Pygoperdita*)
Perdita mucronata Timberlake, 1956. Calif. Univ. Pubs. Ent. 11: 297, figs. 235, 236, 318, 344. ♂.
- ***namatophila** Timberlake. Calif. (Riverside Co.). On flowers of *Nema*. (*Epimacrotera*)
Perdita namatophila Timberlake, 1954. Calif. Univ. Pubs. Ent. 9: 379, figs. 57, 58, 145. ♂.
- ***nevadensis culbertsoni** Timberlake. Calif. (Tulare, Santa Cruz Counties, Yosemite Natl. Pk.). (*Pygoperdita*)
Perdita nevadensis culbertsoni Timberlake, 1956. Calif. Univ. Pubs. Ent. 11: 318. ♀ ♂.
- ***nevadensis molina** Timberlake. Calif. (San Bernardino Co.). (*Pygoperdita*)
Perdita nevadensis molina Timberlake, 1956. Calif. Univ. Pubs. Ent. 11: 318, figs. 273, 274, 364. ♀ ♂.
- nevadensis nevadensis** Cockerell, changed status. North. Calif., Oreg., Wash. On flowers *Eriogonum*. (*Pygoperdita*)
Perdita nevadensis Cockerell. Reduced to subsp. rank (*teste* Timberlake, 1956. Calif. Univ. Pubs. Ent. 11: 316, figs. 271, 272, 332, 363).
Perdita nigricollis Timberlake (syn. by Timberlake, *loc. cit. supra*).
- ***nigrella** Timberlake. South. Calif. On flowers of *Phacelia*. (*Macroterella*)
Perdita nigrella Timberlake, 1954. Calif. Univ. Pubs. Ent. 9: 362, figs. 29, 30, 130. ♂ ♀.
- nigricollis** Timberlake. Syn. of **nevadensis nevadensis** Cockerell.
- ***nigrifacies** Timberlake. Ariz. (Safford). (*Pentaperdita*)
Perdita nigrifacies Timberlake, 1954. Calif. Univ. Pubs. Ent. 9: 406. ♀.
- ***nigrocaerulea** Timberlake. Calif. (Oro Grande Wash). On flowers of *Salazaria*. (*Epimacrotera*)
Perdita nigrocaerulea Timberlake, 1954. Calif. Univ. Pubs. Ent. 9: 382, figs. 65, 66, 149. ♂.
- ***nigroviridis** Timberlake. Tex. (Bexar and Live Oak Counties). (*Pentaperdita*)
Perdita nigroviridis Timberlake, 1954. Calif. Univ. Pubs. Ent. 9: 407, figs. 95, 96, 163. ♀ ♂.

- ***nitens** Timberlake. Calif. (Stanislaus, Santa Clara, and Mendocino Counties). On flowers of *Phacelia*, *Eschscholtzia*, *Eriogonum*. (*Pygoperdita*)
Perdita nitens Timberlake, 1956. Calif. Univ. Pubs. Ent. 11: 295, figs. 233, 234, 343. ♀ ♂.
- novae-angliae** Viereck. N. C. (*Alloperdita*)
- obscurata** Cresson. On flowers of *Sarracenia*. (*Alloperdita*)
- ***opacella** Timberlake. Ariz. (Marble Canyon). (*Macroterella*)
Perdita opacella Timberlake, 1956. Calif. Univ. Pubs. Ent. 11: 324. ♀.
- ***optiva** Timberlake. Calif. (Colo. Desert). On flowers of *Coldenia*. (*Heteroperdita*)
Perdita optiva Timberlake, 1954. Calif. Univ. Pubs. Ent. 9: 371, figs. 47, 48, 139. ♂ ♀.
- opuntiae** Cockerell. S. Dak. (*Cockerellula*)
 Taxonomy: Timberlake, 1954. Calif. Univ. Pubs. Ent. 9: 355, figs. 9, 10, 120.
- ***pallida** Timberlake. Calif., Ariz. On flowers of *Oenothera*. (*Xerophasma*)
Perdita pallida Timberlake, 1954. Calif. Univ. Pubs. Ent. 9: 349. ♀ ♂.
- ***peculiaris** Timberlake. Tex. (Terrell Co.) On flowers of *Chamaesaracha*. (*Epimacrotera*)
Perdita peculiaris Timberlake, 1953. Kans. Univ. Sci. Bul. 35: 970. ♂.
 Taxonomy: Timberlake, 1954. Calif. Univ. Pubs. Ent. 9: 384, figs. 71, 72, 152.
- pelargoides** (Cockerell). On flowers of *Navarretia*. (*Glossoperdita*)
 Taxonomy: Timberlake, 1954. Calif. Univ. Pubs. Ent. 9: 373, figs. 49, 50, 140. ♂.
- perpallida citrinella** Graenicher, changed status.
Perdita citrinella Graenicher. Reduced to subsp. rank (*teste* Timberlake, 1952. Ent. Soc. Wash. Proc. 54: 204).
- perpallida perpallida** Cockerell, changed status.
Perdita perpallida Cockerell. Reduced to subsp. rank (*teste* Timberlake, 1952. Ent. Soc. Wash. Proc. 54: 204).
- ***perpulchra flavidior** Timberlake. Kans., Tex. On flowers of *Heterotheca*, *Aphanostephus*, *Rudbeckia*. (*Cockerellia*)
Perdita perpulchra flavidior Timberlake, 1953. Kans. Univ. Sci. Bul. 35: 975. ♀.
- perpulchra perpulchra** Cockerell, changed status. Ariz., Tex. On flowers of *Erigeron*. (*Cockerellia*)
Perdita perpulchra Cockerell. Reduced to subsp. rank (*teste* Timberlake, 1953. Kans. Univ. Sci. Bul. 35: 975. ♀).
Perdita baileyae Cockerell (syn. by Timberlake, 1956. Calif. Univ. Pubs. Ent. 11: 327).
- ***perpulchra punctissima** Timberlake. Tex. (Bexar, Wood, Robertson, Lamar Counties). On flowers of *Heterotheca*. (*Cockerellia*)
Perdita perpulchra punctissima Timberlake, 1956. Calif. Univ. Pubs. Ent. 11: 327. ♀ ♂.
- platyura** Cockerell. A subsp. of **cambarella** Cockerell.
- ***polycarpae** Timberlake. South Calif.; Baja Calif. On flowers of *Euphorbia* and *Pectis*. (*Epimacrotera*)
Perdita polycarpae Timberlake, 1954. Calif. Univ. Pubs. Ent. 9: 381, figs. 61, 62, 147. ♂ ♀.
- ***polygonellae** Timberlake. N. C. (Holly Shelter). On flowers of *Polygonella*.
Perdita polygonellae Timberlake, 1954. Ent. News 65: 12. ♀ ♂.
- ***portalis** Timberlake. Ariz. (Portal). On flowers of *Sphaeralcea*. (*Macroteropsis*)
Perdita portalis Timberlake, 1954. Calif. Univ. Pubs. Ent. 9: 357, figs. 19, 20, 125. ♂ ♀.

- pratti** Cockerell. Okla., Kans. On flowers of *Helianthus*, *Heterotheca*, *Prionopsis*. (*Hexaperdita*)
Taxonomy: Timberlake, 1956. Calif. Univ. Pubs. Ent. 11: 252, figs. 173, 174, 289. ♂.
- ***pulchella** Timberlake. Tex. (Carrizo Springs). (*Cockerellia*)
Perdita pulchella Timberlake, 1954. Calif. Univ. Pubs. Ent. 9: 393. ♀.
- ***purpurascens** Timberlake. Tex. (Fedor). (*Cockerellia*)
Perdita purpurascens Timberlake, 1956. Calif. Univ. Pubs. Ent. 11: 328. ♂.
- pyrifera** Cockerell. (*Hesperoperdita*)
Taxonomy: Timberlake, 1954. Calif. Univ. Pubs. Ent. 9: 376, fig. 142. ♂.
- ***quadrisignata** Timberlake. Calif. (Santa Cruz, San Benito, and Stanislaus Counties). On flowers of *Baccharis*. (*Pygoperdita*)
Perdita quadrisignata Timberlake, 1956. Calif. Univ. Pubs. Ent. 11: 296. ♀.
- ***rhodogastra** Timberlake. Calif. (Colo. Desert). On flowers of *Coldenia*, *Heliotropium*, *Pluchea*, *Pectis*. (*Heteroperdita*)
Perdita rhodogastra Timberlake, 1954. Calif. Univ. Pubs. Ent. 9: 367, figs. 35, 36, 133. ♀ ♂.
- ***robustula** Timberlake. South. Calif. On flowers of *Prosopis*, *Eschscholtzia*, *Agave*, *Argemone*, *Stanleya*. (*Pygoperdita*)
Perdita robustula Timberlake, 1956. Calif. Univ. Pubs. Ent. 11: 308, figs. 259, 260, 326, 357. ♀ ♂.
- ***ruficauda ornata** Timberlake. North. Calif. On flowers of *Lotus*. (*Hesperoperdita*)
Perdita ruficauda ornata Timberlake, 1954. Calif. Univ. Pubs. Ent. 9: 377. ♀ ♂.
- ruficauda ruficauda** Cockerell, changed status. South. Calif.; Baja Calif. (*Hesperoperdita*)
Perdita ruficauda Cockerell. Reduced to subsp. rank (*teste* Timberlake, 1954. Calif. Univ. Pubs. Ent. 9: 376, figs. 53, 54, 143).
- ***santaclarensis** Timberlake. Calif. (Santa Clara Co.). (*Pygoperdita*)
Perdita santaclarensis Timberlake, 1956. Calif. Univ. Pubs. Ent. 11: 314. ♀.
- ***scopata** Timberlake. Gulf Coast of Tex. On flowers of *Coreopsis* and *Helianthus*. (*Cockerellia*)
Perdita scopata Timberlake, 1953. Kans. Univ. Sci. Bul. 35: 980. ♀ ♂.
Taxonomy: Timberlake, 1954. Calif. Univ. Pubs. Ent. 9: 401, fig. 88.
- ***sculleni sculleni** Timberlake. Oreg., Wash. (*Pygoperdita*)
Perdita sculleni sculleni Timberlake, 1956. Calif. Univ. Pubs. Ent. 11: 320, figs. 277, 278, 333, 366. ♀ ♂.
- ***sculleni segona** Timberlake. Utah, Wyo., Nev. On flowers of *Calochortus*. (*Pygoperdita*)
Perdita sculleni segona Timberlake, 1956. Calif. Univ. Pubs. Ent. 11: 322. ♀ ♂.
- ***sexfasciata** Timberlake. Calif. (Riverside Co.). On flowers of *Coldenia*. (*Heteroperdita*)
Perdita sexfasciata Timberlake, 1954. Calif. Univ. Pubs. Ent. 9: 370, figs. 43, 44, 137. ♂.
- ***shinnersi** Timberlake. Tex. On flowers of *Coreopsis*, *Hymenopappus*, *Brazoria*. (*Cockerellia*)
Perdita shinnersi Timberlake, 1956. Calif. Univ. Pubs. Ent. 11: 326. ♀ ♂.
- solitaria** Cockerell. (*Macroterella*)
- ***stephanomeriae** Timberlake. Calif. (San Diego Co.). On flowers of *Stephanomeria*. (*Procockerellia*)

Perdita stephanomeriae Timberlake, 1954. Calif. Univ. Pubs. Ent. 9: 404. ♀.

swenki Crawford. Mich.

texana (Cresson). N. Mex. On flowers of *Opuntia*. (*Macrotera*)

Taxonomy: Timberlake, 1954. Calif. Univ. Pubs. Ent. 9: 353, figs. 5, 6, 118.

**transversa* Timberlake. Oreg. (Jackson Co.). (*Pygoperdita*)

Perdita transversa Timberlake, 1956. Calif. Univ. Pubs. Ent. 11: 287, figs. 312. ♂.

**tricincta* Timberlake. South. Tex. On flowers of *Helianthus*. (*Cockerellia*)

Perdita tricincta Timberlake, 1953. Kans. Univ. Sci. Bul. 35: 978. ♀ ♂.

Taxonomy: Timberlake, 1954. Calif. Univ. Pubs. Ent. 9: 400, fig. 86.

**trifasciata* Timberlake. N. Mex. (White Sands). Mexico (Coahuila). (*Heteroperdita*)

Perdita trifasciata Timberlake, 1953. Kans. Univ. Sci. Bul. 35: 969. ♂.

Taxonomy: Timberlake, 1954. Calif. Univ. Pubs. Ent. 9: 370, figs. 45, 46, 138. ♀.

trisignata Cockerell. (*Hesperoperdita*)

**tristella* Timberlake. South. Calif. On flowers of *Eriogonum*, *Calochortus*, *Hugelia*, *Sphaeralcea*. (*Macroterella*)

Perdita tristella Timberlake, 1954. Calif. Univ. Pubs. Ent. 9: 363, figs. 31, 32, 131. ♂ ♀.

**tularensis* Timberlake. Calif. (Alpine, Tuolumne, and Mariposa Counties, south to Tehachapi Pass). On flowers of *Calochortus*. (*Pygoperdita*)

Perdita tularensis Timberlake, 1956. Calif. Univ. Pubs. Ent. 11: 303, figs. 247, 248, 351. ♀ ♂.

**turgiceps* Timberlake. Calif., Ariz.; Baja Calif. On flowers of *Acacia*, *Cercidium*, *Eriogonum*, *Prosopis*, *Eriodictyon*, *Cryptantha*, *Dalea*, *Larrea*, *Hyptis*, *Cowania*, *Baeria*. (*Pseudomacrotera*)

Perdita turgiceps Timberlake, 1954. Calif. Univ. Pubs. Ent. 9: 350, figs. 3, 4, 116, 117. ♂ ♀.

utahensis Cockerell. Ariz., Calif. On flowers of *Verbesina*. (*Cockerellia*)

Taxonomy: Timberlake, 1953. Kans. Univ. Sci. Bul. 35: 974. ♂.—Timberlake, 1954. Calif. Univ. Pubs. Ent. 9: 394, figs. 76, 155.

vagans Cockerell. (*Hexaperdita*)

**vandykei* Timberlake. Calif. (Monterey Co.). On flowers of *Taraxacum*. (*Pygoperdita*)

Perdita vandykei Timberlake, 1956. Calif. Univ. Pubs. Ent. 11: 286. ♀ ♂.

verbesinae collaris Cockerell. A subsp. of *coreopsidis* Cockerell.

verbesinae Cockerell, changed status. On flowers of *Verbesina*. (*Cockerellia*)

Perdita verbesinae verbesinae Cockerell. Raised to sp. rank (*teste* Timberlake, 1954. Calif. Univ. Pubs. Ent. 9: 397, fig. 81).

vespertilio Cockerell. (*Hexaperdita*)

xanthismae Cockerell, changed status. Kans. On flowers of *Heterotheca*, *Prionopsis*, *Croton*, *Helianthus*. (*Hexaperdita*)

Perdita xanthismae xanthismae Cockerell. Raised to sp. rank (*teste* Timberlake, 1956. Calif. Univ. Pubs. Ent. 11: 258, figs. 187, 188, 296).

Perdita xanthismae sideranthi Cockerell. (Syn. by Timberlake, *loc. cit. supra.*)

xanthismae sideranthi Cockerell. Syn. of *xanthismae* Cockerell.

Genus PANURGINUS Nylander, pp. 1097-1098**melanocephalus** (Cockerell).

Taxonomy: Michener, 1953. Kans. Univ. Sci. Bul. 35: 1036, figs. 86-88 (larva).

PSEUDOPANURGUS subgenus PSEUDOPANURGUS Cockerell, p. 1098**aethiops** (Cresson). Ariz.**PSEUDOPANURGUS subgenus HETEROSARUS Robertson, pp. 1098-1101****abdominalis tricolor** (Cockerell). N. C.**Genus NOMADOPSIS Ashmead, pp. 1101-1102*****barbata** Timberlake. South. Calif. On flowers of *Phacelia* and *Cryptantha*.
Nomadopsis barbata Timberlake, 1952. Ent. Soc. Amer. Ann. 45: 107.

♂ ♀.

***callosa** Timberlake. Tex. (El Paso Co.)*Nomadopsis callosa* Timberlake, 1952. Ent. Soc. Amer. Ann. 45: 110. ♂.**euphorbiae** (Cockerell).

Taxonomy: Michener, 1953. Kans. Univ. Sci. Bul. 35: 1036, figs. 99, 106-108 (larva).

***foleyi** Timberlake. Calif. (San Bernardino Co.). On flowers of *Larrea*.*Nomadopsis foleyi* Timberlake, 1952. Ent. Soc. Amer. Ann. 45: 112.

♀ ♂.

***fracta** Rozen. Calif. (Palm Springs). On flowers of *Eriodictyon* and *Cryptantha*.*Nomadopsis fracta* Rozen, 1952. Kans. Ent. Soc. Jour. 25: 144, 4 figs.

♂ ♀.

Taxonomy: Michener, 1953. Kans. Univ. Sci. Bul. 35: 1036, figs. 92-98 (larva).

hesperia equina (Cockerell). Nev.***larreae** Timberlake. Calif. (Thousand Palms). On flowers of *Larrea*.*Nomadopsis larreae* Timberlake, 1952. Ent. Soc. Amer. Ann. 45: 111. ♀.***mellipes** Timberlake. South. Calif. On flowers of *Lotus*, *Encelia*, *Oenothera*.*Nomadopsis mellipes* Timberlake, 1952. Ent. Soc. Amer. Ann. 45: 109.

♂ ♀.

nigromaculata** Timberlake. South. Calif. On flowers of *Euphorbia*, *Pectis*, *Eriogonum*.*Nomadopsis nigromaculata* Timberlake, 1952. Ent. Soc. Amer. Ann. 45: 115. ♀ ♂.phaceliae** Timberlake. Calif. (Cartago). On flowers of *Phacelia*.*Nomadopsis phaceliae* Timberlake, 1952. Ent. Soc. Amer. Ann. 45: 116. ♂.***trifolii** Timberlake. Calif. On flowers of *Trifolium* and *Mimulus*.*Nomadopsis trifolii* Timberlake, 1952. Ent. Soc. Amer. Ann. 45: 113.

♀ ♂.

CALLIOPSIS subgenus CALLIOPSIS Smith, p. 1103**andreniformis** Smith.

Taxonomy: Michener, 1953. Kans. Univ. Sci. Bul. 35: 1038, figs. 100-105 (larva).

Genus XENOPANURGUS Michener*Xenopanurgus** Michener, 1952. Kans. Ent. Soc. Jour. 25: 24.Type: *Xenopanurgus readioi* Michener. Orig. desig.Place in Panurginae after *Hypomacrotera* Cockerell and Porter, p. 1104.***readioi** Michener. Ariz. (Huachuca Mts.).*Xenopanurgus readioi* Michener, 1952. Kans. Ent. Soc. Jour. 25: 25, 5 figs. ♂.

Family HALICTIDAE

HALICTUS subgenus SELADONIA Robertson, p. 1105

tripartitus Cockerell.

Taxonomy: Michener, 1953. Kans. Univ. Sci. Bul. 35: 1027, figs. 60, 61, 66, 67 (larva).

LASIOGLOSSUM subgenus EYYLAEUS Robertson, pp. 1107-1110

amicum (Cockerell). Calif.*arcuatum arcuatum* (Robertson). Kans.*arizonense* (Crawford). Calif.*cooleyi* (Crawford). Tex.*gulosum* (Cockerell). Mass.*hammondi* (Cockerell). South. Calif.*kincaidii* (Cockerell).

Taxonomy: Michener, 1953. Kans. Univ. Sci. Bul. 35: 1025, figs. 48-53 (larva).

miguelense (Cockerell). South. Calif.*pectoraloides* (Cockerell). Calif.*peraltum* (Cockerell). Wash.*truncatum* (Robertson). Kans.

LASIOGLOSSUM subgenus SPHECODOGAstra Ashmead, p. 1111

aberrans (Crawford). Calif.*texanum* (Cresson).

Biology: Graenicher, 1911. Pub. Mus. City Milwaukee, Bul. 1: 222-225.

LASIOGLOSSUM subgenus CHLORALICTUS Robertson, pp. 1111-1119

brevibase (Cockerell). Place before *bruneri* (Crawford).*graenicheri* (Ellis). Kans.*hyalinum* (Crawford). Ariz., Calif., Wash.*inconspicuum* (Smith).*Lasioglossum (Chloralictus) stultum* (Cresson), n. syn. (*teste* T. B. Mitchell based on exam. of types).

Taxonomy: Michener, 1953. Kans. Univ. Sci. Bul. 35: 1027, figs. 54-56 (larva).

kunzei (Cockerell). Calif.*mesillense* (Cockerell). Calif., Nev.; Mexico (Hidalgo).*nevadense* (Crawford). Ariz.*pallidellum* (Ellis). Calif.*perparvum* (Ellis). Calif. deserts.*reticulatum* (Robertson).*Lasioglossum (Chloralictus) rhododactylum* (Dalla Torre), n. syn. (*teste* T. B. Mitchell, based on type exam. of *fulvipes* Smith).*rhododactylum* (Dalla Torre). Syn. of *reticulatum* (Robertson).*sedi* (Sandhouse). Calif., Oreg., Colo.*Halictus sedi* Sandhouse. Erroneously placed as a syn. of *veganum* (Cockerell) (*teste* P. H. Timberlake, *in litt.*).*stultum* (Cresson). Syn. of *inconspicuum* (Smith).*veganum* (Cockerell). Delete *sedi* Sandhouse from syn. and Colo. from range.

Genus **SPHECODES** Latreille, pp. 1120-1123

arvensiformis Cockerell. Host: *Halictus farinosus* Sm.

arvensis Patton. Syn. of **dichrous** Smith.

***atlantis** Mitchell. Vt. and Mass. south to Fla., west to Tex., Ark., Tenn., Mich., Minn. On flowers of *Ceanothus*, *Batodendron*, *Hydrangea*.

Sphecodes atlantis Mitchell, 1956. Elisha Mitchell Sci. Soc. Jour. 72: 221. ♀ ♂.

***australis** Mitchell. Conn., N. Y., Va., N. C., Mich. On flowers of *Daucus*, *Ceanothus*, *Aruncus*.

Sphecodes australis Mitchell, 1956. Elisha Mitchell Sci. Soc. Jour. 72: 213.

***autumnalis** Mitchell. Ont., Mich., N. Y., N. C. On flowers of *Chrysopsis*, *Haplopappus*.

Sphecodes autumnalis Mitchell, 1956. Elisha Mitchell Sci. Soc. Jour. 72: 209. ♀ ♂.

***brachycephalus** Mitchell. N. C., Fla. Visiting flowers of *Asclepias*. Host: ? *Calliopsis andreniformis* Sm.

Sphecodes brachycephalus Mitchell, 1956. Elisha Mitchell Sci. Soc. Jour. 72: 207. ♀ ♂.

***canadensis** Mitchell. Que., Ont., N. C.

Sphecodes canadensis Mitchell, 1956. Elisha Mitchell Sci. Soc. Jour. 72: 218. ♂.

***carolinus** Mitchell. Maine to N. C., Tenn., Mich., Minn. On flowers of *Rubus*, *Chrysanthemum*, *Ceanothus*, *Acer*, *Aruncus*, *Hydrangea*.

Sphecodes carolinus Mitchell, 1956. Elisha Mitchell Sci. Soc. Jour. 72: 219. ♀.

***coronus** Mitchell. Mass. to N. C., Mich., Minn. On flowers of *Daucus*, *Solidago*, *Rhus*, *Hydrangea*, *Ceanothus*.

Sphecodes coronus Mitchell, 1956. Elisha Mitchell Sci. Soc. Jour. 72: 215. ♂.

***crawfordi** Mitchell. N. C. (Bryson City).

Sphecodes crawfordi Mitchell, 1956. Elisha Mitchell Sci. Soc. Jour. 72: 217. ♀.

dichrous Smith.

Sphecodes arvensis Patton, n. syn. (*teste* T. B. Mitchell, based on exam. of types).

Sphecodes lautus Lovell and Cockerell, n. syn. (*teste* T. B. Mitchell, based on type exam.).

Sphecodes macfarlandi Viereck, n. syn. (*teste* T. B. Mitchell, based on type exam.).

distolus Lovell. Syn. of **pimpinellae** Robertson.

***exaltus** Mitchell. N. C. (Southern Pines).

Sphecodes exaltus Mitchell, 1956. Elisha Mitchell Sci. Soc. Jour. 72: 217. ♀.

***fattigi** Mitchell. Fla. (Gainesville).

Sphecodes fattigi Mitchell, 1956. Elisha Mitchell Sci. Soc. Jour. 72: 220. ♂.

heterus Lovell. Syn. of **mandibularis** Cresson.

***hydrangeae** Mitchell. Conn., N. C. On flowers of *Hydrangea*.

Sphecodes hydrangeae Mitchell, 1956. Elisha Mitchell Sci. Soc. Jour. 72: 214. ♂.

lautus Lovell and Cockerell. Syn. of **dichrous** Smith.

macfarlandi Viereck. Syn. of **dichrous** Smith.

mandibularis Cresson.

Sphecodes nephelotus Lovell and Cockerell, n. syn. (*teste* T. B. Mitchell, based on exam. of types).

Sphecodes heterus Lovell, n. syn. (*teste* T. B. Mitchell, based on exam. of type).

**morsei* Mitchell. Vt., Minn.

Sphecodes morsei Mitchell, 1956. Elisha Mitchell Sci. Soc. Jour. 72: 213. ♀.

nephelotus Lovell and Cockerell. Syn. of *mandibularis* Cresson.

**nigricorpus* Mitchell. Conn. (Colebrook).

Sphecodes nigricorpus Mitchell, 1956. Elisha Mitchell Sci. Soc. Jour. 72: 220. ♂.

**packardi* Mitchell. Vt., N. H., Minn.

Sphecodes packardi Mitchell, 1956. Elisha Mitchell Sci. Soc. Jour. 72: 216. ♂.

pimpinellae Robertson.

Sphecodes distolus Lovell, n. syn. (*teste* T. B. Mitchell, based on exam. of types).

**texana* Cresson. Tex.

Sphecodes texana Cresson, 1872. Amer. Ent. Soc. Trans. 4: 249. ♀ ♂.

**townesi* Mitchell. N. Y., N. C., Mich.

Sphecodes townesi Mitchell, 1956. Elisha Mitchell Sci. Soc. Jour. 72: 212. ♀.

**wheeleri* Mitchell. Conn., N. C. On flowers of *Leucanthemum*, *Hydrangea*.

Sphecodes wheeleri Mitchell, 1956. Elisha Mitchell Sci. Soc. Jour. 72: 210. ♀ ♂.

Genus AGAPOSTEMON Guérin-Ménéville, pp. 1123-1125

Taxonomy: Fischer, 1950. Kans. Ent. Soc. Jour. 23: 76-78 (distribution, flower preferences and seasonal flight range of Kansas spp.).

angelicus angelicus Cockerell. Wash.

cockerelli Crawford. Ariz.

melliventris melliventris Cresson. Reared from abandoned cells of *Sceliphron*.

texanus californicus Crawford. Cismontane Calif.; Baja Calif.

Genus AUGOCHLORA Smith, p. 1125

This group, considered a subgenus in the Catalog, was raised to generic rank by Michener, 1954 (Amer. Mus. Nat. Hist. Bul. 104: 59).

pura (Say).

Taxonomy: Michener, 1953. Kans. Univ. Sci. Bul. 35: 1028, figs. 57-59, 64 (larva).

Genus AUGOCHLORELLA Sandhouse, pp. 1125-1126

Pereirapis Moure, 1943. Rev. d'Ent. 14: 461.

Type: *Pereirapis rhizophila* Moure. Orig. desig.

This group, considered a subgenus in the Catalog, was raised to generic rank and *Pereirapis* placed as a synonym by Michener, 1954 (Amer. Mus. Nat. Hist. Bul. 104: 55). Place parentheses around all author's names in the specific and subspecific headings.

aurata (Smith). N. Y. (L. I.).

pomoniella pomoniella (Cockerell). Reared from abandoned cells of *Sceliphron*.

Genus AUGOCHLOROPSIS Cockerell, p. 1126

**Augochloropsis* subg. *Pseudaugochloropsis* Schrottky, 1906. Ztschr. System. Hym. Dipt. 6: 313.

Type: *Augochloropsis sthena* Schrottky. Desig. by Sandhouse, 1943.

**Augochlora* subg. *Glyptobasis* Moure, 1940. Arq. Zool. Estado São Paulo 2: 48. Preocc.

Type: *Augochlora (Glyptobasis) chloëra* Moure. Orig. desig.

**Glyptobasis* Moure, 1941. Arq. Mus. Paranaense 1: 98. N. name.

The categories listed above are synonyms or subgenera of *Augochloropsis* (teste Michener, 1954. Amer. Mus. Nat. Hist. Bul. 104: 84).

NOMIA subgenus EPINOMIA Ashmead, p. 1127

nevadensis nevadensis Cresson.

Taxonomy: Michener, 1953. Kans. Univ. Sci. Bul. 35: 1029, figs. 68, 71, 72, 76 (larva).

NOMIA subgenus ACUNOMIA Cockerell, pp. 1127-1128

melanderi melanderi Cockerell. Correct spelling in sp. heading to emended form.

Taxonomy: Michener, 1953. Kans. Univ. Sci. Bul. 35: 1031, figs. 69, 70, 73-75 (larva).

Biology: Bohart and Cross, 1955. Ent. Soc. Amer. Ann. 48: 403-406, 3 figs.

nortoni Cresson. Change spelling from *plebia* to *plebeia* in orig. cit.

***Genus PROTODUFOUREA Timberlake**

Protodufourea Timberlake, 1955. Pan-Pacific Ent. 31: 105.

Type: *Protodufourea wasbaueri* Timberlake. Orig. desig.

Place before *Micralictoides* Timberlake, p. 1130.

**parca* Timberlake, Calif. (Riverside Co.).

Protodufourea parca Timberlake, 1955. Pan-Pacific Ent. 31: 106. ♂.

**wasbaueri* Timberlake. Calif. (San Benito Co.). On flowers of *Emmenanthe*.

Protodufourea wasbaueri Timberlake, 1955. Pan-Pacific Ent. 31: 107.
♂ ♀.

Family MELITTIDAE

MELITTA subgenus MELITTA Kirby, p. 1134

wilmattae Cockerell. Calif.

HESPERAPIS subgenus HESPERAPIS Cockerell, p. 1134

rufipes (Ashmead).

Taxonomy: Michener, 1953. Kans. Univ. Sci. Bul. 35: 1040, figs. 281-287 (larva).

HESPERAPIS subgenus PANURGOMIA Viereck, p. 1135

larreae Cockerell. Calif. deserts.

rhodocera (Cockerell). Calif. deserts.

MACROPIS subgenus MACROPIS Panzer, p. 1136

longilingua Provancher. Change spelling in sp. heading and in orig. cit. from *longilinguis* to *longilingua*.

Family MEGACHILIDAE

LITHURGE subgenus LITHURGOPSIS Fox, pp. 1136-1137

bruesi (Mitchell) Ill.

Genus TRACHUSA Panzer, p. 1137

perdita Cockerell.

Taxonomy: Michener, 1953. Kans. Univ. Sci. Bul. 35: 1042, figs. 109-113, 117 (larva).

ANTHIDIUM subgenus ANTHIDIUM Fabricius, pp. 1139-1143

paroselae Cockerell. Calif. deserts.

permaculatum permaculatum Cockerell. Calif.

Genus DIANTHIDIUM Cockerell, pp. 1143-1145

concinnum (Cresson).

Biology: Fischer, 1951. Kans. Ent. Soc. Jour. 24: 46, figs. 1, 2.

curvatum sayi Cockerell. East. Calif.

Taxonomy: Michener, 1953. Kans. Univ. Sci. Bul. 35: 1045, figs. 130-133 (larva).

Biology: Fischer, 1951. Kans. Ent. Soc. Jour. 24: 47-49.

platyurum platyurum Cockerell. Delete from Catalog; occurs only in Baja Calif. (*teste* P. H. Timberlake, *in litt.*).

simile (Cresson). Reared from partly rotted log.

subparvum subparvum Swenk. Calif.

Genus ANTHIDIELLUM Cockerell, p. 1146

ehrhorni (Cockerell).

Taxonomy: Michener, 1953. Kans. Univ. Sci. Bul. 35: 1045, figs. 119, 123, 124, 127 (larva).

notatum robertsoni (Cockerell).

Taxonomy: Michener, 1953. Kans. Univ. Sci. Bul. 35: 1046, figs. 121, 122, 128 (larva).

Biology: Leech, 1947. Ent. Soc. Brit. Col. Proc. 44: 39, 2 figs.

STELIS subgenus MICROSTELIS Robertson, p. 1147

lateralis Cresson. Calif. Host. *Hoplitis pilosifrons* (Cr.).

Taxonomy: Michener, 1953. Kans. Univ. Sci. Bul. 35: 1048, figs. 114-116, 118 (larva).

Biology: Michener, 1955. Kans. Ent. Soc. Jour. 28: 83-86.

montana Cresson. Calif.

Genus DIOXYS Lepeletier and Serville, pp. 1150-1151

aurifuscus Titus). Change sp. heading from *aurifusca* to *aurifuscus*.

pacificus Cockerell. Change sp. heading from *pacifica* to *pacificus*.

productus (Cresson). Change sp. heading from *producta* to *productus*.

Tribe MEGACHILINI

Taxonomy: Hurd and Michener, 1955. Calif. Ins. Survey Bul. 3: 1-248, 141 figs., 112 maps (Calif. spp. except of *Osmia*, *Megachile*, and *Coelioxys*).

Genus CHELOSTOMA Latreille, p. 1151

cockerelli Michener, changed status.

Chelostoma minutum cockerelli Michener. Raised to sp. rank (*teste* Hurd and Michener, 1955. Calif. Ins. Survey Bul. 3: 32).

incisulum Michener, changed status. U. Sonor. Zone of cent. Calif. On flowers of *Phacelia*.

Chelostoma minutum incisulum Michener. Raised to sp. rank (*teste* Hurd and Michener, 1955. Calif. Ins. Survey Bul. 3: 36).

**marginatum incisuloides* Michener. Cent. Calif. On flowers of *Phacelia* and *Cryptantha*.

Chelostoma marginatum incisuloides Michener, 1954. Kans. Ent. Soc. Jour. 27: 69. ♂ ♀.

marginatum marginatum Michener, changed status. South Calif.

Chelostoma minutum marginatum Michener. The typical subsp. of **marginatum** (*teste* Hurd and Michener, 1955. Calif. Ins. Survey Bul. 3: 37).

minutum Crawford, changed status. Nev., Utah. Principally on flowers of *Phacelia*.

Chelostoma minutum minutum Crawford. Raised to sp. rank (*teste* Hurd and Michener, 1955. Calif. Ins. Survey Bul. 3: 34).

minutum cockerelli Michener. Raised to sp. rank.

minutum incisulum Michener. Raised to sp. rank.

minutum marginatum Michener. A subsp. of **marginatum** Michener.

phaceliae Michener. Nev.

Genus **PROCHELOSTOMA** Robertson, p. 1152

philadelphia (Robertson). Kans.

HERIADES subgenus **NEOTRYPTETES** Robertson, p. 1152

Taxonomy: Michener, 1954. Kans. Ent. Soc. Jour. 27: 68-69 (rev. key to spp.).

leavitti crawfordi Graenicher. N. C. (New River).

leavitti leavitti Crawford. Ill., Nebr., Wyo., Tex.

***microphalma** Michener. Deserts of west. Tex., N. Mex., Ariz., Utah.

HeriaDES microphalma Michener, 1954. Kans. Ent. Soc. Jour. 27: 66, 2 figs. ♀ ♂.

variolora variolora (Cresson). Nests in twigs of sumac.

Biology: Fischer, 1955. Canad. Ent. 87: 33-36.

HERIADES subgenus **PHYSOSTETHA** Michener, pp. 1152-1153

carinata Cresson. In reference to Biology, change p. 1 to pp. 39-40.

cressoni Michener. Nebr.

gracilior Cockerell. South. Nev. and south. Calif. On flowers of *Opuntia* and *Convolvulus*.

timberlakei Michener. Colo., Nev. On flowers of *Euphorbia*.

Genus **ASHMEADIELLA** Cockerell, pp. 1153-1156

Taxonomy: Michener, 1953. Kans. Univ. Sci. Bul. 35: 1051, figs. 134, 138, 139, 141 (larva).

ASHMEADIELLA subgenus **ASHMEADIELLA** Cockerell, pp. 1153-1155

altadenae Michener. On flowers of *Lotus* and *Adenostoma*.

Taxonomy: Michener, 1954. Kans. Ent. Soc. Jour. 27: 75. ♀.

aridula aridula Cockerell, changed status. Nev., Utah, Wyo. Visiting many flowers.

Ashmeadiella (Ashmeadiella) meliloti aridula Michener. A subsp. of **aridula** (*teste* Hurd and Michener, 1955. Calif. Ins. Survey Bul. 3: 183).

aridula astragali Cockerell, changed status. Oreg., ? Wyo. Visiting many flowers.

Ashmeadiella (Ashmeadiella) meliloti astragali Michener. A subsp. of **aridula** Cockerell (*teste* Hurd and Michener, 1955. Calif. Ins. Survey Bul. 3: 184).

arizonensis Michener. Syn. of **opuntiae** (Cockerell).

bigeloviae (Cockerell). Nev.; north. Mexico. Visiting many flowers.

cactorum cactorum (Cockerell). Mont., Wyo. On flowers of *Nama*, *Cryptantha*, *Dalea*, *Pentstemon*, *Asclepias*.

Ashmeadiella (Ashmeadiella) cactorum echinocerei Cockerell (syn. by Hurd and Michener, 1955. Calif. Ins. Survey Bul. 3: 160).

- cactorum echinocerei* Cockerell. Syn. of *cactorum cactorum* (Cockerell).
californica californica (Ashmead). Idaho, Nev. Visiting many flowers.
californica florissantensis Michener. Idaho.
californica sierraensis Michener. On flowers of *Aster*, *Solidago*, *Helianthus*.
difugita difugita Michener, changed status. South. Calif. On flowers of *Eriodictyon*, *Verbena*, *Eriogonum*, *Phacelia*, *Gilia*, *Chrysopsis*.
Ashmeadiella (Ashmeadiella) difugita Michener of Catalog, in part. Reduced to subsp. rank (*teste* Michener, 1951. Kans. Ent. Soc. Jour. 24: 53).
**difugita emarginatula* Michener. Cent. and north. Calif., Oreg., Idaho, Nev. On flowers of *Eriogonum* and *Grindelia*.
Ashmeadiella difugita emarginatula Michener, 1951. Kans. Ent. Soc. Jour. 24: 53. ♀.
femorata (Michener). Nev. On flowers of *Dalea*, *Larrea*, *Cercidium*.
foveata Michener. Ariz., Nev., Utah. On flowers of *Dalea*, *Phacelia*, *Erigeron*, *Monardella*, *Collinsia*, *Prosopis*, *Heliotropium*, *Helianthus*, *Lotus*, *Diplacus*.
 Taxonomy: Michener, 1954. Kans. Ent. Soc. Jour. 27: 74. ♂.
**gillettei cismontanica* Michener. Calif. (Riverside, Fresno, Contra Costa Cos.). On flowers of *Heliotropium*, *Cryptantha*, *Melilotus*.
Ashmeadiella (Ashmeadiella) gillettei cismontanica Michener, 1951. Pan-Pacific Ent. 27: 67. ♀.
 Taxonomy: Michener, 1954. Kans. Ent. Soc. Jour. 24: 52. ♂.
gillettei gillettei Titus. S. Dak., Nebr. On flowers of *Sedum*.
**gillettei rubra* Michener. Tex., N. Mex. On flowers of *Dalea*.
Ashmeadiella (Ashmeadiella) gillettei rubra Michener, 1951. Pan-Pacific Ent. 27: 67. ♀ ♂.
gillettei rufiventris Michener. Baja Calif. On flowers of *Heliotropium* and *Malacothrix*.
haematopoda Cockerell. Syn. of *rufipes* Titus.
leucozona Cockerell. Ariz. On flowers of *Teucrium* and *Cercidium*.
meliloti aridula Cockerell. A subsp. of *aridula* Cockerell.
meliloti astragali Michener. A subsp. of *aridula* Cockerell.
meliloti meliloti (Cockerell). Visiting many flowers. Another subsp., *m. crassa* Cockerell, occurs in Baja Calif.
occipitalis Michener. Mexico (Sonora, Baja Calif.).
opuntiae (Cockerell). Utah. On flowers of *Echinocactus*, *Echinocereus*, *Viguiera*.
Ashmeadiella (Ashmeadiella) arizonensis Michener (syn. by Hurd and Michener, 1955. Calif. Ins. Survey Bul. 3: 192).
prosopidis (Cockerell). Tex. Visiting many flowers.
Ashmeadiella (Ashmeadiella) schwarzi Titus (syn. by Hurd and Michener, 1955. Calif. Ins. Survey Bul. 3: 161).
**rhodopus* Michener. Syn. of *rufipes* Titus.
rufipes Titus. Baja Calif., northwest. Mexico. Visiting flowers of *Dalea*, *Heliotropium*, *Petalonyx*, *Pectis*, *Palafoxia*, *Cryptantha*.
Ashmeadiella haematopoda Cockerell (syn. by Hurd and Michener, 1955. Calif. Ins. Survey Bul. 3: 175).
**Ashmeadiella rhodopus* Michener, 1936. Pan-Pacific Ent. 12: 59. ♂ ♀. (Syn. by Hurd and Michener, *loc. cit. supra*).
rufitarsis Michener. On flowers of *Eriogonum*.
schwarzi Titus. Syn. of *prosopidis* (Cockerell).
sonora Michener. Ariz., Utah; Baja Calif. On flowers of *Baileya*, *Asclepias*, *Olneya*, *Hugelia*, *Euphorbia*, *Eriogonum*, *Pectis*.

titusi Michener. On flowers of *Lotus*, *Phacelia*, *Helianthus*.

***truncativentris** Michener. Tex. (Sanderson). On flowers of *Dalea*.

Ashmeadiella (Ashmeadiella) truncativentris Michener, 1951. Pan-Pacific Ent. 27: 68. ♀ ♂.

ASHMEADIELLA subgenus TITUSELLA Cockerell, p. 1155

biscopula Michener. On flowers of *Prosopis*.

cubiceps clypeata Michener. On flowers of *Encelia*, *Melilotus*, *Stenotopsis*, *Chaenactis*, *Sphaeralcea*, *Haplopappus*.

pronitens (Cockerell). Wyo.

ASHMEADIELLA subgenus AROGOCHILA Michener, pp. 1155-1156

australis (Cockerell). Nev., Utah. On flowers of *Monardella*, *Solidago*.

cazieri Michener. On flowers of *Dalea*, *Cercidium*.

clypeodentata clypeodentata Michener, changed status. On flowers of *Delea*, *Prosopis*, *Cercidium*, *Phacelia*.

Ashmeadiella (Arogochila) clypeodentata Michener. Reduced to subsp. rank (*teste* Michener, 1951. Pan-Pacific Ent. 27: 70).

***clypeodentata simplicior** Michener. Tex., Ariz. On flowers of *Prosopis*.
Ashmeadiella (Arogochila) clypeodentata simplicior Michener, 1951. Pan-Pacific Ent. 27: 70. ♀.

erema Michener. Ariz., Tex. On flowers of *Dalea*.

eurynorhyncha Michener. On flowers of *Dalea*.

foxiella Michener. On flowers of *Pentstemon* and *Phacelia*.

lutzi (Cockerell). Utah. On flowers of *Phacelia*.

salviae Michener. On flowers of *Dalea*, *Rhamnus*, *Brassica*.

stenognatha Michener. On flowers of *Phacelia*.

Taxonomy: Michener, 1954. Kans. Ent. Soc. Jour. 27: 77. ♂.

timberlakei solida Michener. Cent. and north. Calif., Oreg., Nev. On flowers of *Lotus*, *Trifolium*, *Nama*, *Astragalus*, *Phacelia*, *Solidago*.

timberlakei timberlakei Michener. Restricted to south. Calif. On flowers of *Phacelia*, *Cryptantha*, *Chaenactis*, *Eriodictyon*, *Lupinus*.

ASHMEADIELLA subgenus CORYTHOCHILA Michener, p. 1156

breviceps Michener. Mexico (Baja Calif., Sonora). On flowers of *Larrea*, *Hyptis*, *Stephanomeria*, *Cryptantha*, *Dipetalia*, *Prosopis*.

inyoensis Michener. On flowers of *Dalea*.

ASHMEADIELLA subgenus CHILOSIMA Michener, p. 1156

rhodognatha Cockerell. Nev., Tex. On flowers of *Pluchea*, *Prosopis*, *Heliotropium*, *Dalea*, *Cercidium*, *Cryptantha*, *Melilotus*.

ASHMEADIELLA subgenus CUBITOGNATHA Michener, p. 1156

xenomastax Michener. Mexico (Sonora). On flowers of *Dalea*, *Eriogonum*, *Phacelia*, *Chaenactis*, *Lupinus*.

HOPLITIS subgenus FORMICAPIS Sladen

(= *Formicapis* Sladen, p. 1156)

Reduced to subgeneric rank (*teste* Hurd and Michener, 1955. Calif. Ins. Survey Bul. 3: 44).

clypeata Sladen. Calif. On flowers of *Taraxacum*.

HOPLITIS subgenus ROBERTSONELLA Titus
(= *Robertsonella* Titus, p. 1157)

Reduced to subgeneric rank (*teste* Hurd and Michener, 1955. Calif. Ins. Survey Bul. 3: 44).

HOPLITIS subgenus HOPLITINA Cockerell, p. 1157

bullifacies Michener. On flowers of *Phacelia*. Change ♀ ♂ to ♀ (♂ misdet.) in orig. cit.

Taxonomy: Michener, 1954. Pan-Pacific Ent. 30: 37. ♂.

howardi (Cockerell). Occasionally on flowers of *Cryptantha* and *Salvia*.

***mazourka** Michener. Calif. (Inyo Co.). On flowers of *Cryptantha*.

Hoplitis mazourka Michener, 1954. Pan-Pacific Ent. 30: 38. ♂.

mojavensis Michener. On flowers of *Phacelia* and *Cryptantha*.

HOPLITIS subgenus ALCIDAMEA Cresson, pp. 1157-1158

Taxonomy: Michener, 1953. Kans. Univ. Sci. Bul. 35: 1051, figs. 142-145, 149 (larva).

brachyodonta (Cockerell). On flowers of *Heliotropium* and *Chaenactis*.

colei (Crawford). On flowers of *Eriodictyon*.

grinnelli septentrionalis Michener. Idaho, Utah. On flowers of *Linum*, *Pentstemon*, *Phacelia*.

pilosifrons (Cresson).

Biology: Michener, 1955. Kans. Ent. Soc. Jour. 28: 81-83.

producta gracilis (Michener). Nev.

truncata mescalerium Cockerell. Ariz. Many flower records.

truncata truncata (Cresson). Nebr., Wyo.

HOPLITIS subgenus CYRTOSMIA Michener, p. 1158

hypocrita (Cockerell). Ariz., Nev., Utah, Mont., Idaho, Oreg. Many flower records.

HOPLITIS subgenus DASYOSMIA Michener, p. 1158

biscutellae (Cockerell). Tex., Nev., Utah.

HOPLITIS subgenus ACROSMIA Michener, p. 1159

laevibullata (Michener). Utah. Principally on flowers of *Nemophila* and *Phacelia*.

Anthocopa (*Eremosmia*) **laevibullata** Michener. Transf. from *Anthocopa* subg. *Eremosmia* (*teste* Michener, 1954. Pan-Pacific Ent. 30: 40).

Hoplitis (*Acrosmia*) **perissocera** Michener (syn. by Michener, *loc. cit. supra*).

perissocera Michener. Syn. of *laevibullata* (Michener).

plagiostoma Michener. Oreg.

***rufina** Michener. Calif., Oreg., Utah. On flowers of *Nemophila* and *Viola*.

Hoplitis rufina Michener, 1954. Pan-Pacific Ent. 30: 40. ♀ ♂.

HOPLITIS subgenus MONUMETHA Cresson, p. 1159

Chlorosmia Sladen of Catalog. Syn. by Hurd and Michener, 1955. Calif. Ins. Survey Bul. 3: 81.

albifrons argentifrons (Cresson). Nebr. (Sioux Co.).

louisae (Cockerell). Utah.

Genus **PROTERIADES** Titus, p. 1160

Anthocopa subg. *Xerosmia* Michener, 1943. Ent. Soc. Amer. Ann. 36: 81.

Type: *Osmia xerophila* Cockerell. Orig. desig.

Revision: Timberlake and Michener, 1950. Kans. Univ. Sci. Bul. 33: 387-440, 16 figs.

Xerosmia synonymized under *Proteriades* by Timberlake and Michener (*op. cit.*, p. 391) and component species transferred to *Proteriades*. In citation of type of subgenus *Cephalapis*, change *jacintinum* to *jacintanum*.

**basingeri* Timberlake and Michener. Calif. (Riverside Co.).

Proteriades basingeri Timberlake and Michener, 1950. Kans. Univ. Sci. Bul. 33: 413. ♂ ♀.

**bidenticauda* Timberlake and Michener. Calif. (Inyo Co.).

Proteriades bidenticauda Timberlake and Michener, 1950. Kans. Univ. Sci. Bul. 33: 420, figs. 4, 11. ♂ ♀.

**boharti* Timberlake and Michener. Calif. (Carrville, Trinity Co.).

Proteriades boharti Timberlake and Michener, 1950. Kans. Univ. Sci. Bul. 33: 429, figs. 2, 14. ♂.

**caudex* Timberlake and Michener. Calif. (San Jacinto Mts.).

Proteriades caudex Timberlake and Michener, 1950. Kans. Univ. Sci. Bul. 33: 418, figs. 3, 15. ♂ ♀.

**cryptanthae* Timberlake and Michener. South. Calif.

Proteriades cryptanthae Timberlake and Michener, 1950. Kans. Univ. Sci. Bul. 33: 416. ♂ ♀.

**deserticola* Timberlake and Michener. South. Calif.

Proteriades deserticola Timberlake and Michener, 1950. Kans. Univ. Sci. Bul. 33: 430. ♂ ♀.

**hamulicornis* Timberlake and Michener. Calif. (Inyo Co.).

Proteriades hamulicornis Timberlake and Michener, 1950. Kans. Univ. Sci. Bul. 33: 425, figs. 5, 13. ♂ ♀.

incanescens incanescens (Cockerell), changed status.

Proteriades incanescens (Cockerell). Reduced to subsp. rank (*teste* Timberlake and Michener, 1950. Kans. Univ. Sci. Bul. 33: 399).

**incanescens nevadensis* Timberlake and Michener. Nev., Calif.

Proteriades incanescens nevadensis Timberlake and Michener, 1950. Kans. Univ. Sci. Bul. 33: 399. ♀.

Taxonomy: Michener, 1954. Kans. Ent. Soc. Jour. 27: 71. ♂.

**incanescens tota* Michener. Calif. (Tuolumne Co.).

Proteriades incanescens tota Michener, 1954. Kans. Ent. Soc. Jour. 27: 72. ♀.

jacintana (Cockerell). Oreg.

**nanula nanula* Timberlake and Michener. South. Calif. lowlands.

Proteriades nanula nanula Timberlake and Michener, 1950. Kans. Univ. Sci. Bul. 33: 409. ♂ ♀.

**nanula sparsa* Timberlake and Michener. Centr. Calif., south. Calif. mts.

Proteriades nanula sparsa Timberlake and Michener, 1950. Kans. Univ. Sci. Bul. 33: 410. ♂ ♀.

**nigra* Timberlake and Michener. Syn. of *palmarum* (Cockerell).

**nigrella attonita* Michener. Calif. (Inyo Co.).

Proteriades nigrella attonita Michener, 1954. Kans. Ent. Soc. Jour. 27: 73. ♀ ♂.

**nigrella nigrella* Michener. South. Calif.

Proteriades nigrella nigrella Michener, 1954. Kans. Ent. Soc. Jour. 27: 73. ♀.

- palmarum** (Cockerell). Transf. from *Anthocopa* subg. *Xerosmia*, p. 1162.
**Proteriades nigra* Timberlake and Michener, 1950. Kans. Univ. Sci. Bul. 33: 405. ♀. (Syn. by Hurd and Michener, 1955. Calif. Ins. Survey Bul. 3: 139.)
 Taxonomy: Michener, 1954. Kans. Ent. Soc. Jour. 27: 71. ♂.
- *pygmaea* Timberlake and Michener. South. Calif.
Proteriades pygmaea Timberlake and Michener, 1950. Kans. Univ. Sci. Bul. 33: 411, figs. 6, 16. ♂ ♀.
- *reducta* Timberlake and Michener. Calif. (Riverside Co.)
Proteriades reducta Timberlake and Michener, 1950. Kans. Univ. Sci. Bul. 33: 414. ♂ ♀.
- *seminigra seminigra* Timberlake and Michener. South. Calif.
Proteriades seminigra seminigra Timberlake and Michener, 1950. Kans. Univ. Sci. Bul. 33: 403. ♂ ♀.
- *seminigra yosemitensis* Timberlake and Michener. Cent. Calif.
Proteriades seminigra yosemitensis Timberlake and Michener, 1950. Kans. Univ. Sci. Bul. 33: 404. ♂ ♀.
- semirubra** (Cockerell). Coastal south. and cent. Calif.
- *similis* Timberlake and Michener. Calif. (Riverside).
Proteriades similis Timberlake and Michener, 1950. Kans. Univ. Sci. Bul. 33: 406. ♀.
- *truicauda* Timberlake and Michener. Calif. (San Jacinto Mts.).
Proteriades truicauda Timberlake and Michener, 1950. Kans. Univ. Sci. Bul. 33: 423. ♂ ♀.
- xerophila** (Cockerell). Transf. from *Anthocopa* subg. *Xerosmia*, p. 1162.
 Taxonomy: Michener, 1953. Kans. Univ. Sci. Bul. 35: 1055, figs. 146-148, 150 (larva).

ANTHOCOPA subgenus ATOPOSMIA Cockerell, pp. 1160-1161

- abjecta abjecta** (Cresson), changed status. Calif. (Mono Co.), Utah, Wyo.
Anthocopa (Atoposmia) abjecta (Cresson). Reduced to subsp. rank (teste Hurd and Michener, 1955. Calif. Ins. Survey Bul. 3: 99).
Hoplitis mesae Cockerell (syn. by Michener, 1954. Pan-Pacific Ent. 30: 43).
Anthocopa (Atoposmia) nigrior Michener (syn. by Michener, loc. cit. supra).
- abjecta alta** (Michener), changed status. Calif. (Sierra Mts.).
Anthocopa (Atoposmia) alta (Michener). Reduced to subsp. rank (teste Hurd and Michener, 1955. Calif. Ins. Survey Bul. 3: 99).
- alta** (Michener). A subsp. of **abjecta** (Cresson).
- anthodyta anthodyta** Michener, changed status. Oreg., Idaho; Baja Calif.
Anthocopa (Atoposmia) anthodyta Michener. Reduced to subsp. rank (teste Michener, 1954. Pan-Pacific Ent. 30: 42).
- *anthodyta bequaerti* Michener. Ariz. (Santa Rita Mts.).
Anthocopa anthodyta bequaerti Michener, 1954. Pan-Pacific Ent. 30: 42. ♂ ♀.
- *arizonensis* Michener. Ariz.
Anthocopa arizonensis Michener, 1954. Pan-Pacific Ent. 30: 43. ♀.
- elongata** (Michener). Wash., Mont., Colo.
- *hebitis* Mitchener. Calif. (Tulare Co.).
Anthocopa hebitis Michener, 1954. Pan-Pacific Ent. 30: 44. ♀ ♂.
- mesae** (Cockerell). Syn. of **abjecta abjecta** (Cresson).
- nigrior** Michener. Syn. of **abjecta abjecta** (Cresson).
- oregona** Michener. Calif. (Sierra Nevada).
- shastensis** (Cockerell). A subsp. of **tridonta** (Cockerell).

triodonta shastensis (Cockerell), changed status.

Anthocopa (Atoposmia) shastensis (Cockerell). Reduced to subsp. rank (teste Hurd and Michener, 1955. Calif. Ins. Survey Bul. 3: 106).

ANTHOCOPA subgenus EREMOSMIA Michener, pp. 1161-1162

Anthocopa subg. *Phaeosmia* Michener. Syn. by Hurd and Michener, 1955. Calif. Ins. Survey Bul. 3: 107.

**beameri* Michener. Tex. (Big Bend Natl. Park, Marathon). On flowers of *Phacelia* and *Nama*.

Anthocopa (Eremosmia) beameri Michener, 1951. Pan-Pacific Ent. 27: 64. ♀ ♂.

**daleae* Michener. Tex. (Big Bend Natl. Park, Sanderson). On flowers of *Phacelia* and *Dalea*.

Anthocopa (Phaeosmia) daleae Michener, 1951. Pan-Pacific Ent. 27: 62. ♀ ♂.

enceliae enceliae (Cockerell), changed status. On flowers of *Encelia*.

Anthocopa (Phaeosmia) enceliae (Cockerell). Reduced to subsp. rank (teste Hurd and Michener, 1955. Calif. Ins. Survey Bul. 3: 119).

enceliae mortua (Cockerell), changed status. Nev. On flowers of *Encelia*.

Anthocopa (Phaeosmia) mortua (Cockerell). Reduced to subsp. rank (teste Hurd and Michener, 1955. Calif. Ins. Survey Bul. 3: 119).

Anthocopa (Phaeosmia) mallognatha Michener (syn. by Hurd and Michener, loc. cit. supra).

hemizoniae (Cockerell). On flowers of *Hemizonia* and *Helianthus*.

Taxonomy: Michener, 1954. Pan-Pacific Ent. 30: 50. ♂.

**hurdiana* Michener. Calif. (Panamint Mts.). On flowers of *Dalea*.

Anthocopa hurdiana Michener, 1954. Pan-Pacific Ent. 30: 47. ♀ ♂.

hypostomalis Michener. On flowers of *Dalea*, *Cryptantha*.

Taxonomy: Michener, 1954. Pan-Pacific Ent. 30: 49. ♂.

laevibullata Michener. Transf. to *Hoplitis* subg. *Aerosmia*, p. 1159.

mallognatha Michener. Syn. of *enceliae mortua* (Cockerell).

maryae Michener. On flowers of *Dalea*.

**mirifica* Michener. Calif. (Inyo Co.). On flowers of *Encelia* and *Chaenactis*.

Anthocopa mirifica Michener, 1954. Pan-Pacific Ent. 30: 51. ♀ ♂.

mortua (Cockerell). A subsp. of *enceliae* (Cockerell).

**namatophila* Michener. On flowers of *Nama*.

Anthocopa namatophila Michener, 1954. Pan-Pacific Ent. 30: 47. ♀.

nitidivitta Michener. On flowers of *Astragalus* and *Dalea*.

robustula (Cockerell). Nev. On flowers of *Dalea*, *Cercidium*, *Palafoxia*, *Astragalus*.

**rubrella macswaini* Michener. Calif., Nev.

Anthocopa rubrella macswaini Michener, 1954. Pan-Pacific Ent. 30: 45. ♀ ♂.

rubrella rubrella Michener, changed status. On flowers of *Dalea*.

Anthocopa (Phaeosmia) rubrella Michener. Reduced to subsp. rank (teste Michener, 1954. Pan-Pacific Ent. 30: 45).

**rubrella rubrior* Michener. South. Calif. On flowers of *Dalea*.

Anthocopa rubrella rubrior Michener, 1954. Pan-Pacific Ent. 30: 46. ♀ ♂.

rupestris (Cockerell). On flowers of *Phacelia*, *Larrea*, *Eriodictyon* and *Nama*. Change orig. cit. to read p. 47, not p. 46.

**segregata* Michener. Calif. (Inyo Co.). On flowers of *Parosela*.

Anthocopa segregata Michener, 1954. Pan-Pacific Ent. 30: 48. ♀.

timberlakei (Cockerell). On flowers of *Astragalus*.

viguierae (Cockerell). On flowers of *Viguiera*, *Hyptis*, *Enceliopsis*, *Encelia*.

ANTHOCOPA subgenus HEXOSMIA Michener, p. 1162

albomarginata (Cockerell). A subsp. of *copelandica* (Cockerell).

arefacta (Cockerell). A subsp. of *copelandica* (Cockerell).

copelandica albomarginata (Cockerell), changed status. Calif., west. Oreg. On flowers of *Phacelia*, *Collinsia*, *Nemophila*.

Anthocopa (Hexosmia) albomarginata (Cockerell). Reduced to subsp. rank (*teste* Hurd and Michener, 1955. Calif. Ins. Survey Bul. 3: 125).

copelandica arefacta (Cockerell), changed status. On flowers of *Phacelia*, *Cryptantha*, *Malacothrix*.

Anthocopa (Hexosmia) arefacta (Cockerell). Reduced to subsp. rank (*teste* Hurd and Michener, 1955. Calif. Ins. Survey Bul. 3: 125).

copelandica copelandica (Cockerell), changed status. Colo., Utah, Wyo., Mont., Idaho, east. Oreg., Wash., B. C.

Anthocopa (Hexosmia) copelandica (Cockerell). Reduced to subsp. rank (*teste* Hurd and Michener, 1955. Calif. Ins. Survey Bul. 3: 123).

phaceliarum (Cockerell). On flowers of *Phacelia*.

ANTHOCOPA subgenus XEROSMIA Michener, p. 1162

Synonymized under *Proteriades* Titus, p. 1160, and component species transferred to that genus. Correct *Xerosimia* to *Xerosmia* in orig. cit.

Genus DICERATOSMIA Robertson, p. 1162

subfasciata punctata (Michener). Syn. of *subfasciata subfasciata* (Cresson).

subfasciata subfasciata (Cresson). Visits many flowers.

Diceratosmia subfasciata punctata (Michener) (syn. by Hurd and Michener, 1955. Calif. Ins. Survey Bul. 3: 215).

OSMIA subgenus OSMIA Panzer, p. 1163

lignaria lignaria Say.

Biology: Bohart, 1955. Ent. Soc. Wash. Proc. 57: 203-204.

lignaria propinqua Cresson.

Taxonomy: Michener, 1953. Kans. Univ. Sci. Bul. 35: 1054, figs. 135-137, 140 (larva).

OSMIA subgenus CHALCOSMIA Schmiedeknecht, pp. 1163-1164

coerulescens (Linnaeus). Change Syst. Ent. to Syst. Nat. in orig. cit. of *Apis coerulescens*.

coloradensis Cresson. Nesting in pine cone.

Biology: Ruckes, 1956. Pan-Pacific Ent. 32: 122, 1 fig.

OSMIA subgenus CEPHALOSMIA Sladen, p. 1164

californica Cresson.

Biology: Bohart, 1955. Ent. Soc. Wash. Proc. 57: 203-204.

OSMIA subgenus MELANOSMIA Schmiedeknecht, pp. 1164-1165

hendersoni Cockerell. Transf. from *Osmia* subg. *Acanthosmioides*, p. 1165 (*teste* White, 1952. Kans. Univ. Sci. Bul. 35: 221).

kenoyeri Cockerell. Transf. from *Osmia* subg. *Acanthosmioides*, p. 1165 (*teste* White, 1952. Kans. Univ. Sci. Bul. 35: 221).

OSMIA subgenus ACANTHOSMIOIDES Ashmead, pp. 1165-1166

Revision: White, 1952. Kans. Univ. Sci. Bul. 35: 219-307, pls. 39-44.

**calcarata* White. Calif. (Sonora Pass in Sierra Nevada Mts.).

Osmia calcarata White, 1952. Kans. Univ. Sci. Bul. 35: 245, pl. 39, fig. 15; pl. 40, fig. 11; pl. 41, fig. 9; pl. 42, fig. 9; pl. 43, fig. 11; pl. 44, fig. 15. ♂ ♀.

crenulaticornis Michener. Syn. of *physariae* Cockerell.

depressa Michener. Syn. of *unca* Michener, not *nifoata* Cockerell.

enixa Sandhouse. Transf. to *Osmia* subg. *Nothosmia*, p. 1168.

**francisconis* White. Calif. (San Francisco).

Osmia francisconis White, 1952. Kans. Univ. Sci. Bul. 35: 269, pl. 40, fig. 2. ♀.

giliarum Cockerell. Wyo. Delete Oreg. On flowers of *Gilia* and *Pentstemon*.

hendersoni Cockerell. Transf. to *Osmia* subg. *Melanosmia*, p. 1165.

**hurdi* White. Calif., B. C. On flowers of *Allium*.

Osmia hurdi White, 1952. Kans. Univ. Sci. Bul. 35: 273, pl. 39, fig. 7. ♀.

integra Cresson, changed status. Calif. to B. C., east to Man., south to Ariz., N. Mex., Tex. On flowers of *Lotus*.

Osmia (Acanthosmioides) integra integra Cresson. Raised to sp. rank (teste White, 1952. Kans. Univ. Sci. Bul. 35: 290).

Osmia (Acanthosmioides) integra nigrigena Michener (syn. by White, loc. cit. supra).

integra nigrigena Michener. Syn. of *integra* Cresson.

kenoyeri Cockerell. Transf. to *Osmia* subg. *Melanosmia*, p. 1165.

lanei Sandhouse. Delete Wash., Oreg. from range.

lapinicola Cockerell. Correct range to South. Calif. Mts. On flowers of *Lupinus*, *Lotus*, *Nolina*.

lutzi Michener. Syn. of *sedula* Sandhouse, not of *pellax* Sandhouse.

melanopleura Cockerell. Transf. to *Osmia* subg. *Nothosmia*, p. 1169. N. b., *pinorum* Cockerell is a syn. of *Osmia (Acanthosmioides) physariae* Cockerell, not of *melanopleura*.

nifoata Cockerell. Remove *sladeni* Sandhouse from syn. (a valid sp.) and *depressa* Michener from syn. (a syn. of *unca* Michener). Calif. and Wash. to Colo. and Idaho.

Osmia pellax Sandhouse (syn. by White, 1952. Kans. Univ. Sci. Bul. 35: 261).

nigrifrons Cresson, changed status. Wash. to Calif. east to Wyo., Colo., Utah. On flowers of *Vicia* and *Astragalus*.

Osmia (Acanthosmioides) nigrifrons nigrifrons Cresson. Raised to sp. rank (teste White, 1952. Kans. Univ. Sci. Bul. 35: 271).

Osmia nigrifrons casta Cockerell (syn. by White, loc. cit. supra).

nigrifrons casta Cockerell. Syn. of *nigrifrons* Cresson.

nigrobarbata Cockerell. Wash.

**obliqua* White. Calif., Oreg., B. C. On flowers of *Astragalus*.

Osmia obliqua White, 1952. Kans. Univ. Sci. Bul. 35: 238, pl. 40, fig. 7; pl. 41, fig. 5; pl. 42, fig. 2; pl. 43, fig. 9; pl. 44, figs. 1, 5. ♂.

odontogaster Cockerell. Calif.

pellax Sandhouse. Syn. of *nifoata* Cockerell. N. b., *lutzi* Michener is a syn. of *sedula* Sandhouse, not of *pellax*.

physariae Cockerell. South. Calif. mts. to B. C., east to Sask., Colo., Utah, Nev. On flowers of *Lotus*, *Allium*, *Trifolium*, *Iris*.

Osmia pinorum Cockerell not a syn. of *melanopleura* Cockerell but of *physariae* (teste White, 1952. Kans. Univ. Sci. Bul. 35: 251).

Osmia crenulaticornis Michener (syn. by White, loc. cit. supra).

pinorum Cockerell. Syn. of *physariae* Cockerell, not of *melanopleura* Cockerell.

sedula Sandhouse. Calif., B. C., Wyo.

Osmia lutzii Michener not a syn. of *pellax* Sandhouse but of *sedula* (teste White, 1952. Kans. Univ. Sci. Bul. 35: 265).

sladeni Sandhouse. B. C., Alta., Wyo., Utah.

Osmia nifoata Cockerell of Catalog, in part. *O. sladeni* not a syn. (teste White, 1952. Kans. Univ. Sci. Bul. 35: 249).

titusi Cockerell. Transf. from *Osmia* subg. *Nothosmia*, p. 1171 (teste White, 1952. Kans. Univ. Sci. Bul. 35: 280). On flowers of *Lupinus* and *Astragalus*.

trifoliama Sandhouse. On flowers of *Trifolium*.

unca Michener. Oreg., Wash., B. C., Mont., Colo., Utah.

Osmia depressa Michener not a syn. of *nifoata* Cockerell but of *unca* (teste White, 1952. Kans. Univ. Sci. Bul. 35: 251).

OSMIA subgenus NOTHOSMIA Ashmead, pp. 1167-1171

enixa Sandhouse. Transf. from *Osmia* subg. *Acanthosmioides*, p. 1165 (teste White, 1952. Kans. Univ. Sci. Bul. 35: 221).

melanopleura Cockerell. Transf. from *Osmia* subg. *Acanthosmioides*, p. 1166 (teste White, 1952. Kans. Univ. Sci. Bul. 35: 221). N. b., *pinorum* Cockerell, rec. as syn. of *melanopleura* in Catalog, is syn. of *Osmia* (*Acanthosmioides*) *physariae* Cockerell.

seclusa Sandhouse. Utah. On flowers of *Pentstemon*, *Astragalus*, *Lupinus*, *Medicago*.

Biology: Bohart, 1955. Ent. Soc. Wash. Proc. 57: 235-236.

titusi Cockerell. Transf. to *Osmia* subg. *Acanthosmioides*, p. 1166.

MEGACHILE subgenus LITOMEGACHILE Mitchell, p. 1172

brevis brevis Say, changed status.

Megachile (*Litomegachile*) *brevis* Say. Reduced to subsp. rank (teste Michener, 1953. Kans. Univ. Sci. Bul. 35: 1663).

Taxonomy: Michener, 1953. Kans. Univ. Sci. Bul. 35: 1057, figs. 151-153, 157 (larva).

Biology: Michener, 1953. *Op. cit.*, pp. 1659-1748, 31 figs.

brevis onobrychidis Cockerell, changed status. Intergrading with typical *brevis* Say in a wide area from Nebr. and Tex. to Pacific.

Megachile (*Litomegachile*) *onobrychidis* Cockerell. Reduced to subsp. rank (teste Michener, 1953. Kans. Univ. Sci. Bul. 35: 1663).

mendica Cresson. Reared from rose canes.

onobrychidis Cockerell. A subsp. of *brevis* Say.

texasana Cresson. Nests in soil.

Biology: Krombein, 1953. Ent. Soc. Wash. Proc. 55: 84-85.

MEGACHILE subgenus MEGACHILE Latreille, p. 1173

inermis Provancher. Nesting in decaying poplar.

Biology: Stephen, 1956. Pan-Pacific Ent. 32: 98-101.

MEGACHILE subgenus EUTRICHARAEA Thomson, p. 1174

**argentata* (Fabricius). Calif., Okla.; presumably introduced from Europe or Asia. On flowers of *Centromadia*, *Heliotropium*, *Medicago*.

Apis argentata Fabricius, 1793. Ent. Syst. 2: 336.

Apis albiventris Panzer, 1798. Faun. Ins. German. 5: Heft 56, pl. 19.

Megachile Leachella Curtis, 1828. Brit. Ent. 5: 218.

rotundata (Fabricius). Pa., Kans., Mo., Tex., Calif. On flowers of *Centromadia*, *Cosmos*, *Solidago*, *Euphorbia*, *Polygonum*.

MEGACHILE subgenus DELOMEGACHILE Viereck, pp. 1174-1175

frigida frigida Smith. Nesting in decaying poplar. Transf. *vidua* Smith to syn. of *Megachile* (*Xanthosarus*) *latimanus* Say, p. 1179.
Biology: Stephen, 1956. Pan-Pacific Ent. 32: 95-98.

MEGACHILE subgenus MEGACHILOIDES Mitchell, p. 1175

oenotherae (Mitchell). Nesting in loam.
Biology: Sivik, 1954. Ent. News 65: 256.

MEGACHILE subgenus XEROMEGACHILE Mitchell, pp. 1176-1178

rubi Mitchell. Nesting in sandy loam.
Biology: Sivik, 1954. Ent. News 65: 255-256.

MEGACHILE subgenus ARGYROPILE Mitchell, p. 1179

parallela parallela Smith. Nests in ground.
Biology: Fischer, 1951. Kans. Ent. Soc. Jour. 24: 49-50.

MEGACHILE subgenus XANTHOSARUS Robertson, pp. 1179-1180

**armata* Smith. Syn. of *comata* Cresson.

comata Cresson.

**Megachile armata* Smith, 1879. Descr. New Species Hym. Brit. Mus., p. 80. ♂. N. syn. (*teste* T. B. Mitchell, based on type exam.).

latimanus Say.

Megachile vidua Smith, n. syn. Not a syn. of *Megachile* (*Delomegachile*) *frigida frigida* Smith, p. 1174 (*teste* T. B. Mitchell, based on type exam.).

MEGACHILE subgenus CHELOSTOMOIDES Robertson, pp. 1182-1183

Taxonomy: Michener, 1953. Kans. Univ. Sci. Bul. 35: 1059, figs. 162-164 (larva.)—Mitchell, 1956. Pan-Pacific Ent. 32: 134-138 (revised key to spp.).

angularum Cockerell. B. C. Visiting many flowers.

chilopsidis Cockerell. On flowers of *Acacia*, *Cercidium*, *Chilopsis*, *Olneya*, *Prosopis*.

Megachile (*Chelostomoides*) *longula* (Fox). Orig. cit. for *Lithurgus longulus* should read **Lithurgus oblongus*, preocc.

Megachile longula Fox, 1902. Ent. News 13: 137. N. name.

Megachile (*Chelostomoides*) *pratti* Cockerell of Catalog, in part. *Megachile pratti* is the opposite sex of *chilopsidis* and *M. discorhina* Cockerell is a valid. sp. (*teste* Mitchell, 1956. Pan-Pacific Ent. 32: 129-130).

davidsoni Cockerell. On flowers of *Pentstemon*.

discorhina Cockerell. Calif., Ariz.; Baja Calif. On flowers of *Acacia*, *Cercidium*, *Larrea*, *Medicago*, *Melilotus*, *Prosopis*. A valid sp., not a syn. of *pratti* Cockerell (*teste* Mitchell, 1956. Pan-Pacific Ent. 32: 131).

duplexa Mitchell. Syn. of *odontostoma* Cockerell.

lobatifrons Cockerell. On flowers of *Cercidium*, *Prosopis*.

longula (Fox). Syn. of *chilopsidis* Cockerell.

**oblongus* (Fox). Syn. of *chilopsidis* Cockerell.

occidentalis Fox. Nesting in adobe wall. On flowers of *Lotus*, *Cercidium*, *Medicago*, *Tamarix*, *Nolina*, *Chilopsis*.

odontostoma Cockerell. On flowers of *Acacia*, *Melilotus*, *Prosopis*, *Senecio*.

Megachile (*Chelostomoides*) *duplexa* Mitchell (syn. by Mitchell, 1956. Pan-Pacific Ent. 32: 131).

pratti Cockerell. Syn. of *chilopsidis* Cockerell; n. b., *discorhina* Cockerell is a valid sp., not a syn.

- spinotulata* Mitchell. On flowers of *Eriogonum*, *Cryptantha*, *Robinia*, *Eriodictyon*.
- subexilis* Cockerell. On flowers of *Salvia*, *Phacelia*, *Vicia*, *Lotus*, *Lathyrus*, *Trifolium*.
- **texensis* Mitchell. Tex. (Southmost in Cameron Co.). On flowers of *Parkinsonia*.
- Megachile (Chelostomoides) texensis* Mitchell. Pan-Pacific Ent. 32: 132. ♀.
- **tucsonensis* Mitchell. Ariz. (Tucson).
- Megachile (Chelostomoides) tucsonensis* Mitchell, 1956. Pan-Pacific Ent. 32: 133. ♀.

***MEGACHILE subgenus ARCHIMEGACHILE Alfken**

Megachile subg. *Archimegachile* Alfken, 1933. Konowia 12: 56.

Type: *Megachile flavipes* Spinola. Orig. desig.

Place after *Megachile* subgenus *Chelostomoides* Robertson, p. 1183.

- **lanata* (Fabricius). Fla. (Miami); an Indian species, probably introduced into U. S. from Cuba, where it is also adventive. Builds clay cells in cavities.
- Apis lanata* Fabricius, 1775. Systema Ent., p. 385.
- Apis purpurea* Christ, 1791. Naturgesch. Insekt. Bienen, Wespen u. Ameisengeschl., p. 168, pl. 13, fig. 7.
- Megachile Martindalei* Fox, 1891. Amer. Ent. Soc. Trans. 18: 344. ♀ ♂.
- Biology: Horne, 1870. Zool. Soc. London Trans. 7: 176-177, pl. 19, figs. 11, 11a, 11b.

Genus COELIOXYS Latreille, pp. 1183-1186

- 8-dentata* Say. Host: *Megachile (Litomegachile) brevis brevis* Say.
- Taxonomy: Michener, 1953. Kans. Univ. Sci. Bul. 35: 1060, figs. 159-161, 165, 166 (larva).
- Biology: Michener, 1953. Kans. Univ. Sci. Bul. 35: 1737-1742, figs. 24-26.
- porterae* Cockerell. Host: *Megachile (Megachile) relativa* Cr.
- sayi* Robertson. Host: *Megachile (Litomegachile) mendica* Cr.

Family APIDAE

EXOMALOPSIS subgenus EXOMALOPSIS Spinola, p. 1187

- solani* Cockerell. Mexico (Zacatecas).
- Biology: Linsley, MacSwain and Smith, 1954. Pan-Pacific Ent. 30: 263-264.

EXOMALOPSIS subgenus ANTHOPHORULA Cockerell, pp. 1187-1188

- euphorbiae* Timberlake. Calif.
- sidae* Cockerell. Ariz., south Calif.; Baja Calif. On flowers of *Sida*, *Sphaeralcea*, *Gossypium*.

Genus NOMADA Scopoli, pp. 1189-1206

Taxonomy: Michener, 1953. Kans. Univ. Sci. Bul. 35: 1069, figs. 187-189 (larva).

NOMADA subgenus NOMADA Scopoli, pp. 1189-1194

- fowleri* Cockerell. Syn. of *obscuraella* Fowler.
- obscuraella* Fowler. Host: *Andrena complexa* Vier.
- Nomada (Nomada) fowleri* Cockerell (syn. by Linsley and MacSwain, 1955. Canad. Ent. 87: 440).
- Biology: Linsley and MacSwain, 1955. Wasmann Jour. Biol. 13: 275, pl. 1, fig. 4.

NOMADA subgenus GNATHIAS Robertson, pp. 1194-1196

**debilis* Timberlake. Calif. On flowers of *Potentilla*, *Ceanothus*, *Salix*, *Montia*, *Nemophila*, *Arctostaphylos*.

Nomada (Gnathias) debilis Timberlake, 1954. Pan-Pacific Ent. 30: 135.
♀ ♂.

Nomada (Gnathias) debilis var. *a* Timberlake, 1954. Pan-Pacific Ent. 30: 136. ♀.

maculata Cresson.

Nomada (Gnathias) volatilis Smith, n. syn. (teste T. B. Mitchell, based on exam. of types).

**opacella* Timberlake. Calif. On flowers of *Ranunculus*. Hosts: *Andrena complexa* Vier., *A. suavis* Timb.

Nomada (Gnathias) opacella Timberlake, 1954. Pan-Pacific Ent. 30: 133. ♀ ♂.

Biology: Linsley and MacSwain, 1955. Wasmann Jour. Biol. 13: 256-270, pl. 1, fig. 1; pls. 2 and 3.

volatilis Smith. Syn. of *maculata* Cresson.

NOMADA subgenus HOLONOMADA Robertson, pp. 1200-1201

edwardsii edwardsii Cresson. Host: *Andrena perimelas* Ckll.

Biology: Linsley and MacSwain, 1955. Wasmann Jour. Biol. 13: 270-274. pl. 1, fig. 6; pls. 4 and 5.

NOMADA subgenus MICRONOMADA Cockerell and Atkins, pp. 1202-1204

heilighbrodtii Cresson. Fla.

suavis Cresson. Wash., Idaho. Host: *Nomia (Acunomia) m. melanderi* Ckll.

Genus NEOPASITES Ashmead, pp. 1208-1209

Taxonomy: Michener, 1953. Kans. Univ. Sci. Bul. 35: 1067, figs. 180-185 (larva).

NEOPASITES subgenus NEOPASITES Ashmead, p. 1208

An undescribed species has been reared from *Dufourea (Halictoides) trochantera* Bohart.

Tribe TOWNSENDIELLINI

Footnote ⁷⁹ was omitted. It should read ⁷⁹ By E. Gorton Linsley, University of California.

NEOLARRA subgenus NEOLARRA Ashmead, pp. 1209-1210

congregata Crawford. N. Mex.

pruinosa Ashmead. Calif.

Genus OREOPASITES Cockerell, pp. 1210-1211

vanduzeei Cockerell.

Taxonomy: Rozen, 1954. Pan-Pacific Ent. 30: 203-207, 6 figs. (larva).

Tribe PROTEPEOLINI

Footnote ⁸² was omitted. It should read ⁸² By E. Gorton Linsley, University of California.

Genus EPEOLUS Latreille, pp. 1211-1213

Taxonomy: Michener, 1953. Kans. Univ. Sci. Bul. 35: 1072, figs. 195, 196, 198 (larva).

**pilosulus* Provancher. Canada (Cap Rouge).

Epeolus pilosulus Provancher, 1888. Addit. Corr. Faune Ent. Canada Hym., p. 426. ♀.

scutellaris Say. In orig. cit. change 1924 to 1824.

Genus TRIEPEOLUS Robertson, pp. 1213-1218

Taxonomy: Michener, 1953. Kans. Univ. Sci. Bul. 35: 1070, figs. 190-194, 197 (larva).

***Genus PTILOTHRIX Smith**

(= *Emphor* Patton, p. 1218)

**Ptilothrix* Smith, 1853. Cat. Hym. Brit. Mus., v. 1, p. 131.

Type: *Ptilothrix plumatus* Smith. By monotypy.

**Ptilothrix* Marschall, 1873. Nomenclator Zoologicus, p. 269. Emend.

**Energoponus* Holmberg, 1903. Mus. Nac. Buenos Aires An. (3) 2: 406.

Type: (*Energoponus strenuus* Holmberg) = *Ptilothrix plumatus* Smith. Desig. by Sandhouse, 1943.

Emphor Patton is a synonym or subgenus of *Ptilothrix* Smith (*teste* Moure, 1947. Soc. Ent. Argentina Rev. 13: 240).

bombiformis bombiformis (Cresson), n. comb.

Taxonomy: Michener, 1953. Kans. Univ. Sci. Bul. 35: 1075, figs. 212-218 (larva).

bombiformis fuscojubatus (Cockerell), n. comb.

Genus DIADASIA Patton, pp. 1219-1220

**Leptometria* Holmberg, 1903. Mus. Nac. Buenos Aires An. (3) 2: 409.

Type: *Leptometria pereyrae* Holmberg. Desig. by Brèthes, 1910.

**Diadasina* Moure, 1950. Dusenian 1: 392.

Type: *Melitoma paraënsis* Ducke. Orig. desig.

**Diadasiana* (!) Michener, 1954. Amer. Mus. Nat. Hist. Bul. 104: 129.

The categories listed above are synonyms or subgenera of *Diadasia* (*teste* Michener, 1954. Amer. Mus. Nat. Hist. Bul. 104: 129).

bituberculata (Cresson). On flowers of *Convolvulus*.

Biology: Linsley and MacSwain, 1952. Pan-Pacific Ent. 28: 131-135.

consociata Timberlake. Collecting pollen of *Sida*, and visiting many flowers for nectar.

Biology: Linsley, MacSwain and Smith, 1952. Calif. Univ. Pubs. Ent. 9: 267-290, 6 pls.

enavata (Cresson).

Taxonomy: Michener, 1953. Kans. Univ. Sci. Bul. 35: 1075, figs. 206-211 (larva).

friesei Cockerell. Ariz.

sphaeralcearum sphaeralcearum Cockerell. Ariz.

***vestita** Timberlake. N. Mex. (Rio Puerco in Bernalillo Co.).

Diadasia vestita Timberlake, 1956. Pan-Pacific Ent. 32: 91. ♂.

Genus PEPONAPIS Robertson, p. 1221

The specific name of genotype is *pruinosa*, not *prinosa*.

Genus XENOGLOSSA Smith, p. 1221

fulva Smith. On flowers of *Cucurbita*.

Biology: Linsley, MacSwain, and Smith, 1955. South. Calif. Acad. Sci. 54: 128-141, 3 pls.

Genus ANTHEDONIA Michener, p. 1222

compta (Cresson). N. J. and Ga. west to Utah and N. Mex.; Mexico (Durango).

Taxonomy: LaBerge, 1955. Kans. Ent. Soc. Jour. 28: 132, fig. 1. ♂ ♀.

nevadensis (Cresson). Tex. west to Calif.; Mexico (Durango). On flowers of *Oenothera*.

Melissodes smithii (Dalla Torre) not a valid sp. in *Melissodes* but a syn. of *nevadensis* (*teste* LaBerge, 1955. Kans. Ent. Soc. Jour. 28: 134, fig. 2. ♀ ♂).

***Genus GAESISCHIA Michener, LaBerge and Moure**

Place in Eucerini before *Melissodes* Latreille, p. 1222.

***GAESISCHIA subgenus GAESISCHIA Michener, LaBerge and Moure**

Gaesischia Michener, LaBerge and Moure, 1955. Dusenía 6: 220.

Type: *Svastra fulgurans* Holmberg. Orig. desig.

The typical subgenus occurs only in South America.

***GAESISCHIA subgenus GAESISCHIANA Michener, LaBerge and Moure**

Gaesischia subg. *Gaesischiana* Michener, LaBerge and Moure, 1955. Dusenía 6: 224.

Type: *Gaesischia (Gaesischiana) exul* Michener, LaBerge and Moure. Orig. desig.

**exul* Michener, LaBerge and Moure. Ariz. to Guatemala.

Gaesischia (Gaesischiana) exul Michener, LaBerge and Moure, 1955. Dusenía 6: 224. ♂.

Genus MELISSODES Latreille, pp. 1222-1229

Eclectica Holmberg, 1884. Acad. Nac. Cienc. Córdoba Actas 5: 123.

Type: *Eclectica tintinnans* Holmberg. By monotypy.

Melissodes subg. *Tachymelissodes* LaBerge, 1956. Kans. Univ. Sci. Bul. 37: 1170.

Type: *Melissodes dagosa* Cockerell. Orig. desig.

Melissodes subg. *Heliomelissodes* LaBerge, 1956. Kans. Univ. Sci. Bul. 37: 1172.

Type: *Melissodes desponsa* Smith. Orig. desig.

Melissodes subg. *Psilomelissodes* LaBerge, 1956. Kans. Univ. Sci. Bul. 37: 1173.

Type: *Melissodes intorta* Cresson. By monotypy and orig. desig.

Melissodes subg. *Apomelissodes* LaBerge, 1956. Kans. Univ. Sci. Bul. 37: 1175.

Type: *Melissodes fimbriata* Cresson. Orig. desig.

Melissodes subg. *Eumelissodes* LaBerge, 1956. Kans. Univ. Sci. Bul. 37: 1177.

Type: *Melissodes agilis* Cresson. Orig. desig.

Taxonomy: Michener, 1953. Kans. Univ. Sci. Bul. 35: 1073, figs. 199-205 (larva).—LaBerge, 1956. Kans. Univ. Sci. Bul. 37: 1032-1194, 129 figs. (Pt. I of a gen. rev. of North and Centr. Amer. spp.).—LaBerge, 1956. Kans. Univ. Sci. Bul. 38: 533-578, 13 figs. (Pt. II of a gen. rev. treating the subgenera *Tachymelissodes*, *Apomelissodes*, *Psilomelissodes*, *Heliomelissodes*.)

Remove *Epimelissodes* Ashmead from synonymy and transfer to **Svastra* Holmberg as a valid subgenus. In citation of Robertson's revision in Catalog, change 1895 to 1905.

agilis Cresson. Remove *agilis* var. *parksii* Cockerell from syn. and transf. to *Xenoglossodes*, p. 1230, as a valid sp. (*Eumelissodes*)

**albocincta* Cockerell. Syn. of *opuntiella* Cockerell.

alopex Cockerell. A subsp. of *communis* Cresson.

apicata Lovell and Cockerell. Maine to Fla. Oligolectic on *Pontederia*; visiting also flowers of *Melilotus*, *Stachys*, *Hydrocotyle* for nectar. (*Apomelissodes*)

atripes Cresson. Transf. to *Svastra* subg. *Epimelissodes*.

**aurescens* Cockerell. Syn. of *tepaneca* Cresson.

baileyi Cockerell. Tex. (Fedor). (*Apomelissodes*)

bimaculata bimaculata (Lepeletier). Maine west to east. N. Dak. and Colo., south to north. Fla. and east. Tex. On many flowers. (*Melissodes*)

Melissodes melanosoma Cockerell (syn. by LaBerge, 1956. Kans. Univ. Sci. Bul. 37: 1105).

**bimaculata nulla* LaBerge. South. Fla. and Keys. On flowers of *Lythrum*. (*Melissodes*)

Melissodes (Melissodes) bimaculata nulla LaBerge, 1956. Kans. Univ. Sci. Bul. 37: 1109. ♂ ♀.

bishoppi Cockerell. Transf. to *Xenoglossodes*, p. 1230.

**blanda* LaBerge. Tex., Okla. On flowers of *Opuntia*, *Borrichia*, *Gaillardia*, *Sphaeralcea*. (*Melissodes*)

Melissodes (Melissodes) blanda LaBerge, 1956. Kans. Univ. Sci. Bul. 37: 1084. ♂ ♀.

brevicornis Cresson. Transf. to *Svastra* subg. *Brachymelissodes*.

bruesi Cockerell. Syn. of *tepaneca* Cresson.

caliginosa Cresson. Transf. to *Svastra* subg. *Epimelissodes* as a subsp. of *obliqua* (Say).

calloleuca Cockerell. Syn. of *dagosa* Cockerell.

cnici Robertson. Syn. of *desponsa* Smith.

comanche Cresson. Transf. to *Svastra* subg. *Epimelissodes*.

communis alopex Cockerell, changed status. South. Calif. to B. C., east to Alta. and Utah. On many flowers. (*Melissodes*)

Melissodes alopex Cockerell. Reduced to subsp. rank (*teste* LaBerge, 1956. Kans. Univ. Sci. Bul. 37: 1059).

communis communis Cresson. Southeastern Ariz., north through eastern Colo. and Wyo. to N. Dak. and east through Ill. and Ind. in the north and through Tex. in the south to the Atlantic. On many flowers. (*Melissodes*)

Melissodes hortivagans hortivagans Cockerell (syn. by LaBerge, 1956. Kans. Univ. Sci. Bul. 37: 1053).

Melissodes martini Cockerell (syn. by LaBerge, *loc. cit. supra*).

Melissodes xanthopteralis Cockerell (syn. by LaBerge, *loc. cit. supra*).

Melissodes manni Cockerell (syn. by LaBerge, *loc. cit. supra*).

Melissodes hortivagans melanotica Cockerell (syn. by LaBerge, *loc. cit. supra*).

**communis gratior* Cockerell. Syn. of *paroselae* Cockerell.

comptoides Robertson. N. J. to Fla., west to S. Dak., Colo., Ariz. On many flowers. (*Melissodes*)

Melissodes hitei Cockerell (syn. by LaBerge, 1956. Kans. Univ. Sci. Bul. 37: 1087).

dagosa Cockerell. Idaho and Wash. to Calif. and Colo. On flowers of *Asclepias*, *Cirsium*, *Medicago*, *Melilotus*, *Norta*, *Sphaeralcea*, *Thelypodium*. (*Tachymelissodes*)

Melissodes calloleuca Cockerell (syn. by LaBerge, 1956. Kans. Univ. Sci. Bul. 38: 535).

desponsa Smith. N. S. to N. C., Ala., west to N. Dak. and Okla. Visiting many flowers. (*Heliomelissodes*)

Melissodes nigripes Smith (syn. by LaBerge, 1956. Kans. Univ. Sci. Bul. 38: 562).

Melissodes cnici Robertson (syn. by LaBerge, *loc. cit. supra*).

desponsiformis Cockerell. Syn. of *rivalis* Cresson.

duplocincta Cockerell. Transf. to *Idiomelissodes*.

**elusa* LaBerge. ? Ariz. (Huachuca Mts.); Mexico (Chihuahua, Durango, Jalisco, Zacatecas, Puebla, Michoacan, Oaxaca). On flowers of *Gutierrezia*, *Asclepias*. (*Melissodes*)

Melissodes (Melissodes) elusa LaBerge, 1956. Kans. Univ. Sci. Bul. 37: 1061. ♂ ♀.

epicharina Cockerell. Syn. of *gilensis gilensis* Cockerell.

festonata Provancher. Change *festinata* in sp. heading and in orig. cit. to *festonata*.

fimbriata Cresson. Va. to Ga., west to Tex., Kans. On flowers of *Oenothera*, *Kneiffia*, *Helianthus*. (*Apomelissodes*)

galvestonensis Cockerell. Syn. of *tepaneca* Cresson.

georgica Cresson. Transf. to *Svastra* subg. *Epimelissodes* as a subsp. of *atripes* Cresson.

gilensis gilensis Cockerell, changed status. Ariz., N. Mex., Colo. On many flowers. Another subspecies occurs in northern Mexico. (*Melissodes*)

Melissodes gilensis Cockerell. Reduced to subsp. rank (*teste* LaBerge, 1956. Kans. Univ. Sci. Bul. 37: 1147).

Melissodes epicharina Cockerell (syn. by LaBerge, *loc. cit. supra*).

grandissima Cockerell. Transf. to *Svastra* subg. *Epimelissodes*.

habilis Cockerell. Syn. of *rivalis* Cresson.

helenae Cockerell. Syn. of *paroselae* Cockerell.

helianthelli Cockerell. Transf. to *Svastra* subg. *Epimelissodes*.

hexacantha Cockerell. Syn. of *rivalis* Cresson.

hitei Cockerell. Syn. of *comptoides* Robertson.

hortivagans hortivagans Cockerell. Syn. of *communis communis* Cresson.

hortivagans melanotica Cockerell. Syn. of *communis communis* Cresson.

intorta Cresson. Kans., Tex. On flowers of *Asclepias*, *Callirhoe*, *Gaillardia*, *Rorippa*. (*Psilomelissodes*)

Melissodes wickhami Cockerell (syn. by LaBerge, 1956. Kans. Univ. Sci. Bul. 38: 558).

kallstroemiae Cockerell. Syn. of *thelypodii thelypodii* Cockerell.

loena Cockerell. Syn. of *tepaneca* Cresson.

machaerantherae Cockerell. Transf. to *Svastra* subg. *Epimelissodes*.

**maesta* LaBerge. Tex. On flowers of *Monarda*. (*Melissodes*)

Melissodes (Melissodes) maesta LaBerge, 1956. Kans. Univ. Sci. Bul. 37: 1095. ♂ ♀.

manni Cockerell. Syn. of *communis communis* Cresson.

martini Cockerell. Syn. of *communis communis* Cresson.

masuca Cockerell. Syn. of *tepaneca* Cresson.

melanosoma Cockerell. Syn. of *bimaculata bimaculata* (Lepeletier).

**mittchelli* LaBerge. N. C., Ga., Fla. On flowers of *Opuntia*. (*Apomelissodes*)

Melissodes (Apomelissodes) mittchelli LaBerge, 1956. Kans. Univ. Sci. Bul. 38: 556, fig. 7. ♂ ♀.

mysops Cockerell. Syn. of *rivalis* Cresson.

nigripes Smith. Syn. of *desponsa* Smith.

nigrosignata Cockerell. Syn. of *rivalis* Cresson.

obliqua (Say). Transf. to *Svastra* subg. *Epimelissodes*.

opuntiella Cockerell. Utah, Calif., Ariz., Tex.; Mexico (Coahuila). Visiting many flowers. (*Tachymelissodes*)

- **Melissodes albocincta* Cockerell, 1919. Ann. Mag. Nat. Hist. (9) 2: 119. ♀. (Syn. by LaBerge, 1956. Kans. Univ. Sci. Bul. 38: 539.)
- paroselae* Cockerell. South. Calif. to southwest. Tex.; Mexico (Baja Calif., Sonora, Chihuahua, Nayarit). On many flowers. (*Melissodes*)
- Melissodes helenae* Cockerell (syn. by LaBerge, 1956. Kans. Univ. Sci. Bul. 37: 1151).
- **Melissodes communis gravior* Cockerell, 1923. Calif. Acad. Sci. Proc. 12: 85. ♀. (Syn. by LaBerge, *loc. cit. supra*.)
- perplexa* Cresson.
- Biology: Mathewson and Daly, 1955. Kans. Ent. Soc. Jour. 28: 120.
- petalostemonis* Robertson. Syn. of *tepaneca* Cresson.
- petulca* Cresson. Transf. to *Svastra* subg. *Epimelissodes*.
- petulciformis* Cockerell. Transf. to *Svastra* subg. *Brachymelissodes* as a syn. of *brevicornis* Cresson.
- pimella* Cockerell. Transf. to *Xenoglossodes*, p. 1230.
- rivalis* Cresson. B. C. and Calif. east to Man., Minn., south to Ariz., N. Mex. and Tex. Visiting many flowers. (*Heliomelissodes*)
- Melissodes desponsiformis* Cockerell (syn. by LaBerge, 1956. Kans. Univ. Sci. Bul. 38: 568).
- Melissodes mysops* Cockerell (syn. by LaBerge, *loc. cit. supra*).
- Melissodes hexacantha* Cockerell (syn. by LaBerge, *loc. cit. supra*).
- Melissodes nigrosignata* Cockerell (syn. by LaBerge, *loc. cit. supra*).
- Melissodes habilis* Cockerell (syn. by LaBerge, *loc. cit. supra*).
- rustica* (Say). In orig. cit. of *rustica* change 1937 to 1837.
- sabinensis* Cockerell. Transf. to *Svastra* subg. *Epimelissodes*.
- smithii* (Dalla Torre). Transf. to *Anthedonia* as a syn. of *nevadensis* (Cresson), p. 1222.
- sphaeralceae* Cockerell. Ariz., N. Mex., Tex.; Mexico (Dist. Fed.). On flowers of *Monarda*, *Sphaeralcea*. (*Tachymelissodes*)
- spissa* Cresson. Transf. to *Xenoglossodes*, p. 1230.
- suavis* Cresson. Transf. to *Tetralonia*, p. 1233.
- suffusa* Cresson. Transf. to *Svastra* subg. *Epimelissodes* as a subsp. of *petulca* Cresson.
- **tepaneca aschenborniana* Cockerell. Syn. of *tepaneca* Cresson.
- **tepaneca* Cresson. Kans., Ill. and N. C. south through Tex and Mexico to Panama. On many flowers. (*Melissodes*)
- Melissodes tepaneca* Cresson, 1878. Acad. Nat. Sci. Phila. Proc. 30: 210. ♀ in part (♂ misdet.).
- Melissodes petalostemonis* Robertson (syn. by LaBerge, 1956. Kans. Univ. Sci. Bul. 37: 1130).
- Melissodes galvestonensis* Cockerell (syn. by LaBerge, *loc. cit. supra*).
- Melissodes bruesi* Cockerell (syn. by LaBerge, *loc. cit. supra*).
- Melissodes loena* Cockerell (syn. by LaBerge, *loc. cit. supra*).
- Melissodes masuca* Cockerell (syn. by LaBerge, *loc. cit. supra*).
- **Melissodes tepaneca aschenborniana* Cockerell, 1912. Ann. Mag. Nat. Hist. (8) 10: 28. ♂. (Syn. by LaBerge, *loc. cit. supra*.)
- **Melissodes aurescens* Cockerell, 1949. U. S. Natl. Mus. Proc. 98: 462. ♀. (Syn. by LaBerge, *loc. cit. supra*.)
- tepida tepida* Cresson, changed status. North. Utah to Calif. (Sierra Nevada Mts.), north to south. Idaho and northwest. Oreg. On flowers of *Asclepias*, *Astragalus*, *Glycyrrhiza*, *Helianthus*, *Medicago*, *Melilotus*, *Mentha*, *Trifolium*. (*Melissodes*)
- Melissodes tepida* Cresson. Reduced to subsp. rank (*teste* LaBerge, 1956. Kans. Univ. Sci. Bul. 37: 1123).

tepida timberlakei Cockerell, changed status. South. Calif. northeast to Sierra Mts., north to southern Oreg. west of Sierras. On many flowers. (*Melissodes*)

Melissodes timberlakei Cockerell. Reduced to subsp. rank (*teste* LaBerge, 1956. Kans. Univ. Sci. Bul. 37: 1125).

***tepida yumensis** LaBerge. Southeast. Calif., south. Nev., southwest. Utah, Ariz.; Mexico (Baja Calif.). On flowers of *Aster*, *Cercidium*, *Chilopsis*, *Citrullus*, *Gossypium*, *Lippia*, *Medicago*, *Melilotus*, *Salix*, *Sida*, *Sphaeralcea*. (*Melissodes*)

Melissodes (Melissodes) tepida yumensis LaBerge, 1956. Kans. Univ. Sci. Bul. 37: 1128. ♂ ♀.

***tessellata** LaBerge. South. coastal Calif.; Mexico (Baja Calif., Jalisco). On many flowers. (*Melissodes*).

Melissodes (Melissodes) tessellata LaBerge, 1956. Kans. Univ. Sci. Bul. 37: 1157, figs. 101-103. ♂ ♀.

texana texana Cresson. Transf. to *Svastra* subg. *Epimelissodes*.

thelypodii thelypodii Cockerell, changed status. West Tex. to southeast. Calif.; Mexico (Chihuahua, Coahuila, Durango). On many flowers. (*Melissodes*)

Melissodes thelypodii Cockerell. Reduced to subsp. rank (*teste* LaBerge, 1956. Kans. Univ. Sci. Bul. 37: 1071).

Melissodes kallstroemiae Cockerell (syn. by LaBerge, *loc. cit. supra*).

Melissodes thurberiae Cockerell (syn. by LaBerge, *loc. cit. supra*).

thurberiae Cockerell. Syn. of **thelypodii thelypodii** Cockerell.

timberlakei Cockerell. A subsp. of **tepida** Cresson.

townsendi Cockerell. Transf. to *Svastra* subg. *Epimelissodes* as a syn. of *petulca suffusa* Cresson.

wickhami Cockerell. Syn. of **intorta** Cresson.

xanthopteralis Cockerell. Syn. of **communis communis** Cresson.

*Genus *SVASTRA* Holmberg

Taxonomy: Michener, LaBerge and Moure, 1955. *Dusenian* 6: 219-220.—
Moure and Michener, 1955. *Dusenian* 6: 294-298.

Place before *Xenoglossodes* Ashmead, p. 1229. The subgenera *Brachymelissodes* LaBerge and *Epimelissodes* Ashmead, placed in *Melissodes* LaBerge by LaBerge, 1956 (Univ. Kans. Sci. Bul. 37: 926-1032), actually belong to *Svastra* Holmberg. *Epimelissodes* was assigned to *Svastra* by Michener, LaBerge and Moure, 1955, and W. E. LaBerge (in litt.) states that *Brachymelissodes* also belongs in *Svastra*.

**SVASTRA* subgenus *SVASTRA* Holmberg

Svastra Holmberg, 1884. *Acad. Nac. Cienc. Córdoba Actas* 5: 127.

Type: *Svastra bombilans* Holmberg. Orig. desig.

The typical subgenus does not occur in North America.

**SVASTRA* subgenus *BRACHYMELISSODES* LaBerge

Melissodes subg. *Brachymelissodes* LaBerge, 1956. Kans. Univ. Sci. Bul. 37: 926.

Type: (*Eucera cressonii* Dalla Torre) = *Melissodes brevicornis* Cresson. Orig. desig.

brevicornis (Cresson), n. comb. South. Nebr. and east. Colo. south to Tex.; Mexico (Durango). On flowers of *Helianthus*, *Cardia*, *Vernonia*, *Polygonum*, *Euphorbia*. Transf. from *Melissodes*, p. 1223.

Melissodes petulciformis Cockerell (syn. by LaBerge, 1956. Kans. Univ. Sci. Bul. 37: 928).

SVASTRA subgenus EPIMELISSODES Ashmead
 (= *Melissodes* Latreille, in part, pp. 1222-1229)

- *aegis** (LaBerge). Tex. to Fla., north to N. C. On flowers of *Aster*, *Gailardia*, *Helenium*, *Helianthus*, *Vernonia*.
Melissodes (Epimelissodes) aegis LaBerge, 1956. Kans. Univ. Sci. Bul. 37: 959. ♂ ♀.
- *atripes atrimitra** (LaBerge). N. J. south to Fla., Ala., Miss. Visiting many flowers.
Melissodes (Epimelissodes) atripes atrimitra LaBerge, 1956. Kans. Univ. Sci. Bul. 37: 949. ♂ ♀.
- atripes atripes** (Cresson), changed status. N. Mex. and Colo. east to Ill., Mo., La. Visiting many flowers.
Melissodes atripes Cresson. Reduced to subsp. rank (*teste* LaBerge, 1956. Kans. Univ. Sci. Bul. 37: 948) and transf. from *Melissodes*, p. 1223. N. b., *atripes* var. *acomanche* Cockerell is a syn. of *grandissima* Cockerell, not of *atripes*.
- atripes georgica** (Cresson), changed status. East coast of Fla., Ga.
Melissodes georgica Cresson. Reduced to subsp. rank (*teste* LaBerge, 1956. Kans. Univ. Sci. Bul. 37: 951) and transf. from *Melissodes*, p. 1225.
- comanche** (Cresson). On flowers of *Ximenesia encelioides*. Transf. from *Melissodes*, p. 1224.
- grandissima** (Cockerell). Southeast. Tex. On flowers of *Ximenesia encelioides*.
Melissodes atripes var. *acomanche* Cockerell. A syn. of *grandissima* not of *atripes atripes* (*teste* LaBerge, 1956. Kans. Univ. Sci. Bul. 37: 954) and transf. from *Melissodes*, p. 1225.
- helianthelli** (Cockerell). Calif., Ariz., Tex., Kans.; Mexico (Baja Calif.). On flowers of *Helianthus*. Transf. from *Melissodes*, p. 1225.
- machaerantherae** (Cockerell). Tex. (El Paso); Mexico (Chihuahua, Coahuila, Sonora). On flowers of *Machaeranthera*, *Cucurbita*, *Asclepias*, *Helianthus*, *Verbesina*, *Wislizenia*. Remove *obliqua* var. *expurgata* Cockerell from syn. and place it as a subsp. of *obliqua* (Say). Transf. from *Melissodes*, p. 1226.
- obliqua caliginosa** (Cresson), changed status. N. J. to Ga. On flowers of *Borrichia*, *Helenium*, *Helianthus*, *Vernonia*.
Melissodes caliginosa Cresson. Reduced to subsp. rank (*teste* LaBerge, 1956. Kans. Univ. Sci. Bul. 37: 984) and transf. from *Melissodes*, p. 1227.
- obliqua expurgata** (Cockerell), changed status. Wash. and Idaho south to Calif., Colo. and Ariz.; Mexico (Baja Calif.) On many flowers.
Melissodes machaerantherae Cockerell of Catalog, in part. *M. obliqua* var. *expurgata* Cockerell is a subsp. of *obliqua* not a syn. of *machaerantherae* (*teste* LaBerge, 1956. Kans. Univ. Sci. Bul. 37: 991).
- obliqua obliqua** (Say), changed status. Southern Ont. and eastern Mont., south to N. Mex. and N. J.; west of the Appalachians to Fla.; Mexico (Tamaulipas, Coahuila). On many flowers.
Melissodes obliqua (Say). Reduced to subsp. rank (*teste* LaBerge, 1956. Kans. Univ. Sci. Bul. 37: 986) and transf. from *Melissodes*, p. 1227.
- petulca petulca** (Cresson), changed status. Eastern Tex. north through Kans. to Ill., east to Fla., and north along coast to N. J. On many flowers.
Melissodes petulca Cresson. Reduced to subsp. rank (*teste* LaBerge, 1956. Kans. Univ. Sci. Bul. 37: 1012) and transf. from *Melissodes*, p. 1227.

petulca suffusa (Cresson), changed status. Tex. and Kans. west to Colo. and Ariz.; Mexico (Chihuahua, Nuevo Leon, Tamaulipas). On many flowers.

Melissodes suffusa Cresson of Catalog, in part. Reduced to subsp. rank (*teste* LaBerge, 1956. Kans. Univ. Sci. Bul. 37: 1015) and transf. from **Melissodes**, p. 1227. N. b., *suffusa* var. *laterufa* Cockerell is a subsp. of *sabinensis* Cockerell, not a syn. of *suffusa*.

Melissodes townsendi Cockerell (syn. by LaBerge, *loc. cit. supra*).

sabinensis laterufa (Cockerell), changed status. Tex., N. Mex., ? Ariz.; Mexico (Coahuila, Durango).

Melissodes suffusa Cresson of Catalog, in part. **M. suffusa** var. *laterufa* Cockerell is a subsp. of *sabinensis*, not a syn. of *suffusa* (*teste* LaBerge, 1956. Kans. Univ. Sci. Bul. 37: 1021). Transf. from **Melissodes**, p. 1228.

***sabinensis nubila** (LaBerge). South. Calif.; Baja Calif. On flowers of *Gutierrezia*, *Helianthus*, *Encelia*, *Heterotheca*, *Senecio*, *Chrysanthemum*, *Corethrogyne*, *Hemizonia*, *Coreopsis*, *Stephanomeria*, *Isocoma*, *Bebbia*.

Melissodes (Epimelissodes) sabinensis nubila LaBerge, 1956. Kans. Univ. Sci. Bul. 37: 1024. ♂ ♀.

sabinensis sabinensis (Cockerell), changed status. Ariz., N. Mex. On many flowers.

Melissodes sabinensis Cockerell. Reduced to subsp. rank (*teste* LaBerge, 1956. Kans. Univ. Sci. Bul. 37: 1023) and transf. from **Melissodes**, p. 1228.

***sil**a (LaBerge). Ariz., Tex.; Mexico (Chihuahua). On flowers of *Psilostrophe*, *Baileya*, *Kallstroemia*.

Melissodes (Epimelissodes) sila LaBerge, 1956. Kans. Univ. Sci. Bul. 37: 1002. ♂ ♀.

***texana eluta** (LaBerge). Deserts of south. Calif., Ariz.; Mexico (Chihuahua, Coahuila). On flowers of *Asteraginus*, *Helianthus*, *Heterotheca*.

Melissodes (Epimelissodes) texana eluta LaBerge, 1956. Kans. Univ. Sci. Bul. 37: 1000. ♂ ♀.

texana texana (Cresson). Kans., Okla., N. Mex. Delete Miss. from range. On flowers of *Chrysothamnus*, *Flaveria*, *Helianthus*, *Prionopsis*. Transf. from **Melissodes**, p. 1229.

*Genus IDIOMELISSODES LaBerge

Melissodes subg. **Idiomelissodes** LaBerge, 1956. Kans. Univ. Sci. Bul. 37: 1027.

Type: **Melissodes duplocincta** Cockerell. By monotypy and orig. desig.

W. E. LaBerge, 1957 (Amer. Mus. Novitates 1837: 23-25), raises **Idiomelissodes** to generic rank. Place before **Xenoglossodes** Ashmead, p. 1229.

duplocincta (Cockerell), n. comb. Calif. (Colorado Desert); Mexico (Chihuahua, Coahuila). On flowers of *Cevalia*, *Eriogonum*, *Gossypium*, *Sphaeralcea*, *Echinocactus*. Transf. from **Melissodes**, p. 1224.

Genus XENOGLOSSODES Ashmead, pp. 1229-1230

arizonica Cockerell. Calif. (Imperial Co.).

bishoppi (Cockerell). Transf. from **Melissodes**, p. 1223 (*teste* LaBerge, 1956. Kans. Univ. Sci. Bul. 37: 1179).

parksii (Cockerell). Transf. from **Melissodes**, p. 1222, where it was placed as a syn. of *agilis* Cresson (*teste* LaBerge, 1956. Kans. Univ. Sci. Bul. 37: 1179).

pimella (Cockerell). Transf. from **Melissodes**, p. 1228 (*teste* LaBerge, 1956. Kans. Univ. Sci. Bul. 37: 1179).

spissa (Cresson). Transf. from **Melissodes**, p. 1228 (*teste* LaBerge, 1956. Kans. Univ. Sci. Bul. 37: 1178).

Genus TETRALONIA Spinola, pp. 1230-1233

suavis (Cresson). Transf. from *Melissodes*, p. 1228 (*teste* LaBerge, 1956. Kans. Univ. Sci. Bul. 37: 1178).

ANTHOPHORA subgenus ANTHOPHORA Latreille, pp. 1233-1237

Taxonomy: Timberlake, 1951. N. Y. Ent. Soc. Jour. 59: 51-62 (key to western spp.).

abrupta Say.

Taxonomy: Michener, 1953. Kans. Univ. Sci. Bul. 35: 1080, figs. 232, 233 (larva).

affabilis Cresson. Utah.

bomboides neomexicana Cockerell. Calif. (Mono Co.).

bomboides stanfordiana Cockerell.

Taxonomy: Michener, 1953. Kans. Univ. Sci. Bul. 35: 1007 and 1078, figs. 7-15, 219-222, 225 (larva).

californica californica Cresson. Add ♂ after orig. cit. of *5-fasciata* Provancher.

**coptognatha* Timberlake. Ariz., Calif. On flowers of *Lycium*, *Lantana*, *Dalea*, *Prosopis*.

Anthophora coptognatha Timberlake, 1951. N. Y. Ent. Soc. Jour. 59: 54. ♂ ♀.

edwardsii edwardsii Cresson, changed status.

Anthophora (Anthophora) edwardsii Cresson. Reduced to subsp. rank (*teste* Timberlake, 1951. N. Y. Ent. Soc. Jour. 59: 62).

Taxonomy: Michener, 1953. Kans. Univ. Sci. Bul. 35: 1080, figs. 228, 234, 235 (larva).

edwardsii gohrmanae Cockerell, changed status.

Anthophora gohrmanae Cockerell. Reduced to subsp. rank (*teste* Timberlake, 1951. N. Y. Ent. Soc. Jour. 59: 62).

forbesi Cockerell. Calif.; Baja Calif.

Taxonomy: Timberlake, 1951. N. Y. Ent. Soc. Jour. 59: 59. ♂.

**fulvicollis* Timberlake. Calif., Ariz.

Anthophora fulvicollis Timberlake, 1951. N. Y. Ent. Soc. Jour. 59: 59. ♂.

gohrmanae Cockerell. A subsp. of *edwardsii* Cresson.

linsleyi Timberlake.

Taxonomy: Michener, 1953. Kans. Univ. Sci. Bul. 35: 1082, figs. 227, 236, 237 (larva).

occidentalis Cresson. Ariz.

Biology: Porter, 1951. Iowa State Coll. Jour. Sci. 26: 23-30, 19 figs.

pacifica infernalis (Dalla Torre). Change *Podalirius pacifica infernalis* Dalla Torre to *Podalirius infernalis* Dalla Torre.

**pernicis* Timberlake. Ariz., Nev. On flowers of *Ribes*.

Anthophora pernicis Timberlake, 1951. N. Y. Ent. Soc. Jour. 59: 58. ♂.

phenax (Cockerell). Transf. to subg. *Micranthophora*, p. 1239.

**platti* Timberlake. South. Calif. On flowers of *Lantana* and *Salix*.

Anthophora platti Timberlake, 1951. N. Y. Ent. Soc. Jour. 59: 60. ♂ ♀.

pyralitarsis Dours. Syn. of *ursina ursina* Cresson.

urbana urbana Cresson.

Taxonomy: Michener, 1953. Kans. Univ. Sci. Bul. 35: 1080, figs. 223, 224, 226 (larva).

ursina simillima Cresson. Calif.

ursina ursina Cresson.

Anthophora pyralitarsis Dours. (syn. by Timberlake, 1951. N. Y. Ent. Soc. Jour. 59: 57).

- **vannigera* Timberlake. Calif., Ariz. On flowers of *Phacelia*, *Lycium*, *Isomeris*.
Anthophora vannigera Timberlake, 1951. N. Y. Ent. Soc. Jour. 59: 56. ♂.

ANTHOPHORA subgenus CLISODON Patton, p. 1237

- furcata syringae* (Cockerell).
 Taxonomy: Michener, 1953. Kans. Univ. Sci. Bul. 35: 1082, figs. 229-231 (larva).

ANTHOPHORA subgenus MICRANTHOPHORA Cockerell, pp. 1238-1239

- **estebana* Cockerell. South. Calif. deserts; Baja Calif.
Anthophora estebana Cockerell, 1923. Calif. Acad. Sci. Proc. (4) 12: 81. ♂.

- phenax* (Cockerell). Calif. Transf. from subg. *Anthophora*, p. 1236.

Genus EMPHOROPSIS Ashmead, pp. 1239-1240

- birkmanni* Cockerell. Change heading Taxonomy to read Taxonomy and Biology.
miserabilis (Cresson). Wash.; Baja Calif.
rugosissima Cockerell. Calif.

Genus HEMISIA Klug, pp. 1240-1241

- **Xanthemisia* Moure, 1945. Rev. de Ent. 16: 401.
 Type: *Centris bicolor* Lepeletier. Orig. desig.
 **Paremisia* Moure, 1945. Rev. de Ent. 16: 406.
 Type: *Centris lineolata* Lepeletier. Orig. desig.
 **Hemisiella* Moure, 1945. Rev. de Ent. 16: 407.
 Type: *Apis lanipes* Fabricius. Orig. desig.
 **Centris* subg. *Wagenknechtia* Moure, 1950. Dusenía 1: 389.
 Type: *Centris cineraria* Smith. Orig. desig.
 **Centris* subg. *Penthemisia* Moure, 1950. Dusenía 1: 390.
 Type: *Hemisia Chilensis* Spinola. Orig. desig.
 **Centris* subg. *Trichocentris* Snelling, 1956. Pan-Pacific Ent. 32: 4.
 Type: *Centris rhodoleuca* Cockerell. Orig. desig.
 Taxonomy: Michener, 1951. Kans. Ent. Soc. Jour. 24: 1-11 (subg. grouping).

aterrima (Smith). (*Penthemisia*)

atripes atripes (Mocsáry). (*Penthemisia*)

birkmannii (Fries). (*Penthemisia*)

caesalpiniae (Cockerell). (*Penthemisia*)

californica (Timberlake). (*Penthemisia*)

hoffmanseggiae davidsoni (Cockerell). (*Penthemisia*)

hoffmanseggiae hoffmanseggiae (Cockerell). (*Penthemisia*)

lanosa lanosa (Cresson). (*Penthemisia*)

Hemisia subhyalina (Fox). The opposite sex of *l. lanosa* (teste P. H. Timberlake, in litt.).

lanosa resoluta (Cockerell). (*Penthemisia*)

morsei (Cockerell). (? *Trichocentris*)

pallida (Fox). (*Penthemisia*)

rhodoleuca (Cockerell). (*Trichocentris*)

rhodomelas (Timberlake). (*Penthemisia*)

rhodopus (Cockerell). (*Penthemisia*)

subhyalina (Fox). Syn. of *lanosa lanosa* (Cresson).

tiburonus (Cockerell). (*Penthemisia*)

versicolor (Fabricius). (*Hemisia*)

Tribe MELECTINI

Taxonomy: Hurd and Linsley, 1951. Calif. Ins. Survey Bul. 1: 119-140, 1 pl., 5 maps (Calif. spp.).

MELECTA subgenus MELECTA Latreille, p. 1242

atlantica Linsley. A subsp. of **pacifica** Cresson.

fulvida Cresson. A subsp. of **pacifica** Cresson.

pacifica atlantica Linsley, changed status. Kans., Mo., Ala.

Melecta (Melecta) atlantica Linsley. Reduced to subsp. rank (*teste* Michener, 1954. Kans. Ent. Soc. Jour. 27: 66).

pacifica fulvida Cresson, changed status. Utah. Host: *Anthophora pacifica infernalis* (D. T.).

Melecta (Melecta) fulvida Cresson. Reduced to subsp. rank (*teste* Hurd and Linsley, 1951. Calif. Ins. Survey Bul. 1: 128).

pacifica pacifica Cresson, changed status.

Melecta (Melecta) pacifica Cresson. Reduced to subsp. rank (*teste* Hurd and Linsley, 1951. Calif. Ins. Survey Bul. 1: 127).

sierrae Linsley. Syn. of **thoracica** Cresson.

thoracica Cresson. Wash., Oreg., Calif., Wyo., Utah, Nebr., Kans. Host: *Emphoropsis cineraria* (Sm.)

Melecta (Melecta) sierrae Linsley (syn. by Hurd and Linsley, 1951. Calif. Ins. Survey Bul. 1: 126).

MELECTA subgenus MELECTOMIMUS Linsley, p. 1242

edwardsii Cresson. Baja Calif.

Genus XEROMELECTA Linsley, p. 1243

Raised to generic rank (*teste* Hurd and Linsley, 1951. Calif. Ins. Survey Bul. 1: 119). Contains two subgenera, *Xeromelecta* Linsley and *Melectomorpha* Linsley.

XEROMELECTA subgenus MELECTOMORPHA Linsley, p. 1243

californica (Cresson), changed status.

Melecta (Melectomorpha) californica californica Cresson. Raised to sp. rank (*teste* Hurd and Linsley, 1951. Calif. Ins. Survey Bul. 1: 128).

Melecta (Melectomorpha) californica miranda Fox (syn. by Hurd and Linsley, *loc. cit. supra*).

Melecta (Melectomorpha) pasadenensis (Cockerell) syn. by Hurd and Linsley, *loc. cit. supra*).

Taxonomy: Michener, 1953. Kans. Univ. Sci. Bul. 35: 1083, figs. 238-242 (larva).

californica miranda (Fox). Syn. of **californica** (Cresson).

interrupta (Cresson). Mexico (Chihuahua, Durango, Zacatecas).

Melecta (Melectomorpha) rociadensis Cockerell (syn. by Hurd and Linsley, 1951. Calif. Ins. Survey Bul. 1: 133).

pasadenensis (Cockerell). Syn. of **californica** (Cresson).

rociadensis (Cockerell). Syn. of **interrupta** (Cresson).

Genus ZACOSMIA Ashmead, p. 1243

maculata maculata (Cresson). Utah, Wyo. Host: *Anthophora (Micranthophora) arthuri* Ckll.

***Genus MESOPLIA Lepeletier**

Mesoplia Lepeletier, 1841. Hist. Nat. Ins. Hym., v. 2, p. 457.

Type: *Mesocheira azurea* Lepeletier and Serville. By monotypy.

**Melissa* Smith, 1854. Cat. Hym. Brit. Mus. 2: 279.

Type: *Mesocheira azurea* Lepeletier and Serville. Desig. by Sandhouse, 1943.

Place in Ericrocini after *Ericrocis* Cresson, p. 1244.

**dugesi* (Cockerell), n. comb. South. Ariz.; Mexico.

Mesonychium dugesi Cockerell, 1917. Ann. Mag. Nat. Hist. (8) 19: 477. ♂.

CERATINA subgenus CERATINA Latreille, p. 1244

The typical subgenus is Palaearctic.

***CERATINA subgenus CERATINULA Moure**

Ceratinula Moure, 1941. Mus. Paranaense Arq. 1: 78.

Type: *Ceratina lucidula* Smith. Orig. desig.

The North American forms placed in the subgenus *Ceratina* in the Catalog belong in *Ceratinula*.

CERATINA subgenus ZADONTOMERUS Ashmead, pp. 1244-1245

dupla Say.

Taxonomy: Michener, 1953. Kans. Univ. Sci. Bul. 35: 1063, figs. 173-179 (larva).

**punctigena* Cockerell. Calif. (Los Angeles and San Diego Cos.).

Ceratina neomexicana punctigena Cockerell, 1916. Pomona Jour. Ent. Zool. 8: 62. ♀.

Taxonomy: Michener, 1936. Amer. Mus. Novitates 844: 5. ♀ ♂.

Genus XYLOCOPA Latreille, pp. 1245-1246

Xylocopa subg. *Xylocopoides* Michener, 1954. Amer. Mus. Nat. Hist. Bul. 104: 155.

Type: *Apis virginica* Linnaeus. Orig. desig.

Xylocopa subg. *Neoxylocopa* Michener, 1954. Amer. Mus. Nat. Hist. Bul. 104: 157.

Type: *Apis brasilianorum* Linnaeus. Orig. desig.

Xylocopa subg. *Notoxylocopa* Hurd, 1956. Amer. Mus. Novitates 1776: 2.

Type: *Xylocopa tabaniformis* Smith. Orig. desig.

Taxonomy: Hurd, 1955. Calif. Ins. Survey Bul. 4: 35-72, 4 pls., 4 maps (Calif. spp., key to U. S. spp.).

**artifex* Smith. Mts. of south. Ariz. to Argentina. (*Neoxylocopa*)

Xylocopa artifex Smith, 1874. Ent. Soc. London Trans., p. 289. ♀.

**Xylocopa erratica* Smith, 1874. Ent. Soc. London Trans., p. 293. ♂.

brasilianorum brasilianorum (Linnaeus). (*Neoxylocopa*)

brasilianorum varipuncta Patton. (*Neoxylocopa*)

californica arizonensis Cresson. (*Xylocopoides*)

californica californica Cresson. (*Xylocopoides*)

**californica diamesa* Hurd. Cent. and south. coast ranges of Cismont. Calif.; Baja Calif. (*Xylocopoides*)

Xylocopa californica diamesa Hurd, 1954. Pan-Pacific Ent. 30: 202. ♂ ♀.

**loripes* Smith. Southeast. Ariz.; Mexico. (*Schönherria*)

Xylocopa loripes Smith, 1874. Ent. Soc. London Trans., p. 298. ♂.

**Xylocopa formosa* Smith, 1874. Ent. Soc. London Trans., p. 299. ♀.

micans Lepeletier. (*Schönherria*)

orpifex androleuca Michener. A subsp. of *tabaniformis* Smith.

orpifex orpifex Smith. A subsp. of *tabaniformis* Smith.

tabaniformis androleuca Michener, changed status. (*Notoxylocopa*)

Xylocopa orpifex androleuca Michener. Reduced to subsp. rank (*teste* Hurd, 1955. Calif. Ins. Survey Bul. 4: 53).

tabaniformis orpifex Smith, changed status. (*Notoxylocopa*)

Xylocopa orpifex orpifex Smith. Reduced to subsp. rank (*teste* Hurd, 1955. Calif. Ins. Survey Bul. 4: 53).

tabaniformis parkinsoniae Cockerell. (*Notoxylocopa*)

texana Cresson. A subsp. of *virginica* (Linnaeus).

virginica texana Cresson, changed status. (*Xylocopoides*)

Xylocopa texana Cresson. Reduced to subsp. rank (*teste* Hurd, 1955. Calif. Ins. Survey Bul. 4: 51).

virginica virginica (Linnaeus), changed status. Delete ref. to *Apis griseo-collis* Degeer, a valid sp. of *Bombus* subg. *Separatobombus*, p. 1248. (*Xylocopoides*)

Xylocopa virginica (Linnaeus). Reduced to subsp. rank (*teste* Hurd, 1955. Calif. Ins. Survey Bul. 4: 50).

Taxonomy: Michener, 1953. Kans. Univ. Sci. Bul. 35: 1062, figs. 167-172 (larva).

Tribe BOMBINI

Taxonomy: Ritcher, 1933. Ent. Soc. Amer. Ann. 26: 53-63, 33 figs. (larvae).

BOMBUS subgenus **SEPARATOBOMBUS** Frison, p. 1248

crotchii crotchii Cresson. Transf. to subg. **Crotchiiibombus* Franklin.

crotchii var. *nigricaudus* (Frison). Transf. to subg. **Crotchiiibombus* Franklin.

crotchii semisuffusus Cockerell. Transf. to subg. **Crotchiiibombus* Franklin.

***BOMBUS** subgenus **CROTCHIIIBOMBUS** Franklin

Bombus subg. *Crotchiiibombus* Franklin, 1954. Amer. Ent. Soc. Trans. 80: 51.

Type: *Bombus crotchii* Cresson. Orig. desig.

Place after subgenus *Separatobombus* Frison, p. 1248.

crotchii crotchii Cresson. Transf. from subg. *Separatobombus*, p. 1248.

crotchii var. *nigricaudus* (Frison). Transf. from subg. *Separatobombus*, p. 1248.

crotchii semisuffusus Cockerell. Transf. from subg. *Separatobombus*, p. 1248.

BOMBUS subgenus **FERVIDOBOMBUS** Skorikov, p. 1249

americanorum (Fabricius).

Taxonomy: Michener, 1953. Kans. Univ. Sci. Bul. 35: 1087, figs. 248-253 (larva).

***BOMBUS** subgenus **PYROBOMBUS** Dalla Torre

(= *Pratobombus* Vogt, pp. 1250-1253)

**Bombus* subg. *Pyrobombus* Dalla Torre, 1880. Der Naturhistoriker 2: 40.

Type: *Apis hypnorum* Linnaeus. By monotypy.

**Bombus* subg. *Poecilobombus* Dalla Torre, 1882. Naturw.-med. Ver. Innsbruck Ber. 12: 23.

Type: *Bombus sitkensis* Nylander. Desig. by Sandhouse, 1943.

**Bombus* subg. *Pyrrobombus* Dalla Torre, 1882. Naturw.-med. Ver. Innsbruck Ber. 12: 28. Emendation of *Pyrobombus* Dalla Torre.

This subgeneric name replaces Subgenus *Pratobombus* Vogt, pp. 1250-1253, which is a synonym (*teste* Michener, 1954. Amer. Mus. Nat. Hist. Bul. 104: 163).

**impatiens* var. *deayi* Chandler. Ind., Mo.

Bombus impatiens var. *deayi* Chandler, 1956 (1955). Ind. Acad. Sci. Proc. 65: 116. ♀.

vosnesenskii Radoszkowski.

Taxonomy: Michener, 1953. Kans. Univ. Sci. Bul. 35: 1089, fig. 254 (larva).

BOMBUS subgenus ALPINOBOMBUS Skorikov, pp. 1253-1254

arcticus Kirby. Arctic America.

Bombus (Alpinobombus) hyperboreus Schönherr of Catalog, in part. A valid sp., not a syn. of *hyperboreus* (teste Richards, 1931. Tromsø Mus. Arshefter 50, no. 6, p. 10).

**arcticus* var. *groenlandicus* Smith. N. W. T., Greenland.

Bombus Groenlandicus Smith, 1854. Cat. Hym. Brit. Mus., v. 2, p. 393. ♀.

arcticus var. *polaris* Curtis. N. W. T. A var. of *arcticus*, not a syn. of *balteatus* Dahlbom (teste Yarrow, 1955. Ann. Mag. Nat. Hist. (12) 8: 152).

balteatus Dahlbom. Delete *polaris* Curtis from syn., a var. of *arcticus* Kirby.

**hyperboreus clydensis* Yarrow. N. W. T. (Baffin Is.).

Bombus (Alpinobombus) hyperboreus clydensis Yarrow, 1955. Ann. Mag. Nat. Hist. (12) 8: 150. ♀ ♂.

**hyperboreus eskimo* Skorikov. Syn. of *hyperboreus natvigi* Richards.

**hyperboreus eskimo* mod. *henrikseni* Skorikov. Syn. of *hyperboreus natvigi* Richards.

hyperboreus hyperboreus Schönherr, changed status. Arctic America and west. Arctic Europe. Delete *arcticus* Kirby, a valid sp., from syn.

Bombus hyperboreus Schönherr of Catalog, in part (teste Yarrow, 1955. Ann. Mag. Nat. Hist. (12) 8: 151).

**hyperboreus natvigi* Richards. Greenland.

Bombus hyperboreus var. *natvigi* Richards, 1931. Tromsø Mus. Arshefter 50, no. 6, p. 9. ♂.

**Alpinibombus* (!) *hyperboreus eskimo* Skorikov, 1937. Ent. Meddel. 20: 57. ♂. N. syn. (Skorikov considered *natvigi* to be a modification of *eskimo*.)

**Alpinibombus* (!) *hyperboreus eskimo* mod. *henrikseni* Skorikov, 1937. Ent. Meddel. 20: 57. ♂. N. syn.

Unplaced Species in Genus Psithyrus, p. 1255

**dorsalis* (Provancher). Canada (Ottawa).

Apathus dorsalis Provancher, 1888. Addit. Corr. Faune Ent. Canada Hym., p. 343. ♀.

Genus APIS Linnaeus, p. 1255

mellifera Linnaeus.

Taxonomy: Michener, 1953. Kans. Univ. Sci. Bul. 35: 1094, figs. 275-280 (larva).

Morphology: Snodgrass, 1956. Anatomy of the Honey Bee, 334 pp., 107 figs.

General: Ribbands, 1953. The Behaviour and Social Life of Honeybees, 352 pp., 9 pls., 66 figs.—Butler, 1954. The World of the Honeybee, 226 pp. 40 pls.—von Frisch, 1955. The Dancing Bees (Amer. ed.), 183 pp., 30 pls., 61 figs.

CORRECTIONS TO THE CATALOG INDEX

This section was prepared as follows: Symphyta and Chalcidoidea by B. D. Burks; Ichneumonidea and Proctotrupidea by C. F. W. Muesebeck; and Cynipoidea and Aculeata by Miss Irmgard Muller.

Throughout, Girault should be abbreviated Grlt. rather than Gir.; the latter has prior usage for Giraud. Walley should be abbreviated Wly. rather than Wall. De Geer should be abbreviated De G. rather than Deg.

- p. 1258 Aderason Tow. & Tow. Change to Aderaeon.
Aglaojoppidea Vier. Change to *Aglaojoppidea*.
- p. 1259 Antillaemyrmex Mann. Change to *Antillaemyrmex*.
- p. 1260 Arrhenoclavus Doutt. Change to *Arrhenoclavus*.
- p. 1261 Brachistes Wesm. Change to *Brachistes*.
Brachysticha. Change Hal. to Foerst.
- p. 1262 *Callitriche*. Change Nees to Agassiz.
Calyptus Hal. Change to *Calyptus*.
- p. 1263 *Chamerpes* Foerst. Change p. 248 to 247.
Chasmias Ashm. Change to *Chasmias*.
Cimbex Oliv. Add p. 18.
Cotyledon Brad. Change to *Cotyledon*.
Crematogaster Lund. Add p. 808.
- p. 1264 Cryptapanteles Vier. Change to *Cryptapanteles*.
Ctenopelma Holmb. Change to Holmg.
Cryptocheilus Panz. Change p. 911 to 912.
- p. 1266 Encyrtinae. Change p. 474 to 475.
Epihosoma Cress. Change to Eiphosoma.
- p. 1267 add *Eubadizus* Nees p. 112.
Eubazus Nees. Change to *Eubazus*.
- p. 1268 Gamosecus Prov. Change to *Gamosecus*.
- p. 1268 *Habrolepisthia* Mercet. Change to *Habrolepistia*.
Harmolita. Change D. T. to Mots.
Harmolyta. Change Mots. to D. T.
- p. 1270 Joppinae. Change to *Joppinae*.
Lagarotis Thoms. Change to *Lagarotus*.
Lampretatus Wlkr. Change to *Lampretatus* Wlkr.
add *Lathrolestus* Thoms. p. 328.
- p. 1271 Liomonethe Tow. Change to Limonethe.
add *Lionotulus* Blüth. p. 897.
Lisitheria Cam. Change to *Lisitheria*.
add *Lycaotella* Ross p. 62.
Macroneura. Change Wlkr. to Blanch.
- p. 1272 *Megalarismus*. Change Wlkr. to Schulz.
Mehelyella Mocz. Change p. 598 to 898.
- p. 1273 *Microplectron* Foerst. Change p. 320 to 230.
Mionotropis. Change Thoms. to Schulz.
Mnioes Tow. Change to *Mnioes*.
Morodora Gah. Change p. 554 to 544.
add *Mymar* Amer. auctt. p. 418.
Neocrema Sants. Change to *Neocrema*.
- p. 1274 *Omalocerus* Giraud. Change to *Omaloceros*.
Omorga Thoms. Change to *Omorga*.

- p. 1275 *Oxystoglossa* Sm. Change p. 125 to 1125.
Paralaelius Kief. Change to *Paralaelius*.
- p. 1276 Patasson. Change Hal. to Wlkr.
Pentarthrum. Change Pack. to D. T.
- p. 1277 *Platyterma* Wlkr. Change to *Platyterma* Wlkr.
- p. 1278 *Proaspicera* Kief. Change to *Prosaspicera*.
Pseudacriasoides Grlt. Change to *Pseudacriasoides*.
- p. 1279 *Rhysapis* Tischb. Change to *Rhysaspis*.
- p. 1280 *Sympiezus*. Change Foerst. to Thoms.
- p. 1281 add *Syzeucta* Thoms. p. 315.
- p. 1282 *Tetraspilus* Kief. Change to *Tetrapsilus*.
Thymaridini. Change to *Thymaridini*.
Trichocalymma Foerst. Change p. 221 to 222.
- p. 1283 *Urogaster* Ashm. Change to *Urogaster*.
Xeris Costa. Change to *Xeris* Costa.
- p. 1284 *Zagrammatosoma*. Change Ashm. to Schulz.
add *Zaphleges* Foerst. p. 248.
Zatypota Foerst. Change p. 193 to 194.
- p. 1285 *abundans* Kinsey. Change to *abundans*.
accentus (Sandh.). Change to *accentum*.
- p. 1286 *acmaea* Vier. Change p. 256 to 756.
aegyptium L. Change p. 918 to 978.
- p. 1287 *aethiops* Nees. Change p. 101 to 102.
affabilis Cress., *Nomada*. Add [s].
agnathus Cush. Change to *agnatus*.
ainos (Shen.). Change to *aionos*.
- p. 1288 *albihirta* (Ashm.), *Proaspicera*. Change to *Prosaspicera*.
albitarsis Cress., *Helconidea*. Change to *Helcon*.
- p. 1289 *alium* (Sandh.). Change to *aliud*.
alticola (Ashm.), *Banchus*. Place before *alticola* (Ashm.), *Isdromas*.
- p. 1292 *angustior* (Ckll.), *Lasioglossum*. Change to *angustus*.
add *anograe* Ckll., *Perdita* p. 1095.
- p. 1293 *aphidivora* Ashm. Change to *aphidivora* Ashm.
apiarium Weld. Change to *apiaria*.
- p. 1294 *arcticus* (Roman). Change to *arctica*.
argentifrons Cress., *Bembex*. Change p. 988 to 998.
arizonensis Ckll., *Ceratina*. Add [s].
- p. 1295 *arizonica* Ckll., *Sphaerophthalma*. Add [v].
arizonicus (Perk.), *Hesperodryinus*. Add p. 1034.
ashmeadii Bass., *Andricus*. Change to *ashmeadii*.
- p. 1297 *aureicorpus* (Grlt.). Change *Eupelmus* to *Arachnophaga*.
- p. 1298 *australiensis* Gir., *Tetranemella*. Change to *Tetracnemella*.
baccharapidis Ashm. Change to *baccharaphidis*.
bakeri Cwfd., *Conanthalictus*. Change p. 1299 to 1129.
- p. 1299 *balabetei* Roh. Add [v].
ballabetei Brad. Add [v].
add *bataoides* Pack., *Cynips* q. p. 648.
beaulieu Vier. Change to *beaulieui*.
- p. 1300 *bellone* Lep. Change to *bellone*.
- p. 1301 *biglumnis* Hal. Change to *biglumis*.
bilineatus MacG., *Tenthredo*. Delete p. 75.
bimaculata (Lep.), *Melissodes*. Add [s].

- p. 1302 *biplagistus* Cress. Change to *biplagiatus*.
bisexualis Kinsey. Add [f].
- p. 1303 *brassicæ* Pack. Change to *brassicæ* Pack.
brevicornis Prov. Add p. 233.
- p. 1304 *brunnea* (Cress.). Change (Cress.) to Cress.
- p. 1306 *california* Vier., Melitta. Change to *californica*.
californicus Ashm., Andricus. Change p. 631 to 632.
add *californicus* Bass., Cynips q. p. 632.
- p. 1307 add *cameronii* D. T., Chelonus p. 145
canadensis Sm., Harpagoxenus. Change p. 722 to 822.
candidus (Cress.). Change to *candida*.
- p. 1308 *carinata* Stev., Hesperapis. Add [s].
carolina Ashm., Isochyrocnemis. Change to *Ischyrocnemis*.
add *carrugis* Maidl & Klima, Gorytes p. 992.
- p. 1309 *castaneæ* (Roh.), Caliroa. Change p. 22 to 29.
castaneus (Latr.), Camponotus. Add [s].
add *catesbii* D. T., Decatoma p. 580.
- p. 1311 *citerior* (Vach.). Change to *citerius*.
- p. 1311 add *citriiformi* Ashm., Callimome p. 524.
citrinus (Cwfd.), Aspidiotiphagus [s]. Add p. 438.
- p. 1312 *clavatus* Cress. Delete p. 232.
add *coarctata* Latr., Formica p. 786.
add *coccidis* Grt., Eupelmus p. 510.
- p. 1313 *coccophagus* Foerst. Change p. 699 to 669.
cochise Pate. Change p. 1013 to 1031.
cockerelli Cwfd., Perdita. Change to *cockerelli*.
- p. 1314 *coloradensis* Whrl., Lasius [s]. Change to Whrl.
communis Cress., Melissodes. Add [s].
- p. 1315 *comptanæ* Vier. Change p. 613 to 136.
- p. 1318 add *cressoni* (Aaron), Diplorrhous p. 719.
- p. 1319 *curta* Prov., Anthophora. Add [s].
add *curtus* (Nort.), Gravenhorstia p. 397.
- p. 1320 *cyanescens* Prov. Change to *cyanescens*.
daeckei Roh., Thyreopus. Change p. 1021 to p. 1020.
- p. 1321 *defensor* Davis. Change *Tromatobia* to *Pimpla*.
delta Vier., Change p. 1046 to 1064.
- p. 1322 *deprini* Kinsey. Add [f].
desertorum Whrl., Odontomachus [s]. Change p. 781 to 787.
add *desmodioides* Walsh, Nematus p. 55.
despectus (Kief.), Cinetus. Change p. 1085 to 682.
desponsa Sm., Andrena. Change p. 1224 to 1085.
desponsiformis Ckll., Melissodes. Change p. 47 to 1224.
districtus (MacG.), Nematus. Change p. 811 to 47.
destructor (Jerd.), Monomorium. Change p. 651 to 811.
- p. 1322 *destructor* (Kinsey), Callirhytis [v]. Change p. 547 to 651.
destructor (Say), Merisus. Change p. 835 to 547.
detecta Sm., Formica. Change p. 111 to 835.
dichlocera (Harr.). Change to *dichlocerus*.
- p. 1323 *dionnei* (Prov.). Change to *dionnei*.
dispar (Strickl.). Change p. 270 to 240.
diversipilosa Whrl. Change p. 821 to 801.
diversipilosus Sm. Change p. 801 to 821.
- p. 1324 *dolichoptera* Nowicki, Krygeriola. Change p. 421 to 422.
add *duricoria* Mayr, Holcaspis p. 639.

- p. 1325 *dysphagae* Ashm. Change to *dysphagae* Grlt.
eleganta Gir. Place after *elegans* Wold.
- p. 1326 *elongata* (Davis), Barylypa. Change p. 963 to 396.
elongatus Ashm., Ormyrus. Change to *elongatus*.
ensifera Kief., Proaspicera. Change to *Prosaspicera*.
epicus (Cress.). Change p. 156 to 158.
- p. 1327 *erichsoni* (Htg.). Change to *erichsonii*.
erigeniae Robt. Add p. 1065.
erythrogastrum Roh., Aphilodactylum. Change to *erythrogastrum*.
essigi Sm., Camponotus. Change p. 884 to 844.
euchroa Ckll. Add [v].
- p. 1328 *falsicornis* Gomes. Change *Compperia* to *Comperia*.
- p. 1329 *fartus* (Vach.), Lasioglossum. Change to *fartum*.
fasciata Sm., Morphota. Change p. 940 to 941.
add *fasciipennis* Kief., Ibalia p. 595.
fascipennis Cress., Exetastes. Delete p. 316.
- p. 1330 *filicornis* Kief., Tetraspilus. Change to *Tetraspilus*.
filirrhina Brown. Change to *filirrhina*.
- p. 1331 *finni* Roh. Add [s].
add *flavicornis* Harris, Odynerus p. 993.
flavipes Ashm., Megastigmus. Change p. 532 to 527.
add *flavipes* Ashm., Megastigmus p. 532.
second column. Align last digits of page numbers.
- p. 1332 *flavopicta* Criech. Change author to Kriech.
flavosignata Cress. Change p. 770 to 776.
- p. 1333 *floridanus* (Buckl.), Camponotus [s]. Change p. 884 to 844.
add *formosa* Bass., Cynips q. . . . p. 634.
forticornis Walsh, Biorhiza. Change to *forticornis*.
- p. 1334 *frugalis* Cress. Add [s].
- p. 1335 *fulgidus* Hal. Change p. 151 to 153.
fulvus (Nort.), Monoctenus. Change p. 81 to 18.
- p. 1336 *galvestonensis* (Vier.). Change p. 322 to 382.
gaspesianus Prov., Phaeogenes. Change p. 337 to 277.
gaspesianus (Prov.), Syndipnus. Change p. 277 to 337.
- p. 1338 *gonager* Lep. & Br. Change to *gonager*.
- p. 1340 *helianthi* Brodie, Torymus. Add p. 521.
- p. 1341 *hesperina* Ckll., Nomada. Add [s].
heterorhimum (Ckll.). Change to *heterorhinum*.
- p. 1342 *hirticeps* Sm. Change p. 1053 to 1068.
hopkinsi Ashm., Paururus. Change to *hopkinsi* Ashm.
hopkinsii (Vier.), Cosmophorinus. Change (Vier.) to (Ashm.)
hortorum Brues. Change to *hortorum*.
- p. 1342 delete *howardi* (Ashm.), Polynema.
- p. 1343 *hubbardi* How., Goniozus. Place after *hubbardi* Cwfd. on p. 1342.
hyacinthus MacG. Change to *hyacinthus*.
hyalina (Blake), Photopsis, and *hyalina* Brues, *Pristocera*. Place
before *hyalina* Cress.
- p. 1344 delete *ignotus* Bass., Andricus.
add *ilicifoliae* Bass., Cynips q. . . . p. 631.
imitatrix Wesm. Change author to Wasm.
imitatus (Cress.), Agathus. Change to *Agathis*.
inaron. Add Wlkr.
- p. 1345 *indicatus* (Kinsey), Besbicus. Change to *indictus*.
indotata (Davis). Change p. 327 to 328.
inimicus Gah., Cirrospilus. Change p. 498 to 458.

- p. 1346 add *insolens* Brues, *Pezomachus* p. 240.
- p. 1348 *junci* Ashm. Change p. 166 to 167.
- p. 1349 *laetatorius* (F.). Place before *laetum* Wlkr. *laetus* (Bt.). Change to *laetus* (Br.).
- p. 1350 *landerensis* Viereck. Change *Tromatobia* to *Pimpla*. *largo* Vier. Change p. 371 to 376.
- p. 1352 add *levis* D. T., *Perilampus* p. 594. *limitus* Cush. Change to *limitis*.
- p. 1353 *longipes* Perk., *Pheidole* [s]. Change author to Perg.
- p. 1354 *luteicollis* Lep. & Br. Change to *luteicollis*.
- p. 1355 *macer* Tow. & Tow. Change p. 255 to 225. *macswaini* Timb., *Dianthidium*. Change to *macswaini*.
- p. 1356 *maevius* Gir. Change to *maevius* Grt.
- p. 1356 *magdalenae* Strandt. Change to *magdalenae* and change p. 1007 to 1002. *maidaphidis* Ashm. Change to *maidaphidis*. *maidaphidis* Garman. Change to *maidaphidis*. add *mamma* Walsh, *Cynips* q. p. 639. add *mammula* Bass., *Cynips* q. p. 643.
- p. 1357 add *marcidus* Brad., *Brachycistellus* p. 745. *marginatorius* F. Add p. 229. add *mariae* Riley, *Chalcis* p. 591. add *marilandi* Grt., *Neomyrmar* [s] p. 418. add *marilandica* Grt., *Carlyleia* p. 465. *marilandica* Gir., *Lamprotatus*. Change to *marilandica* Grt., *Miscogaster*. insert entries "marlatti Roh., Nysson" to "marylandicus (Gir.), Encyrtus [s]" p. 1358, after *marlatti* Roh., *Hoplocampa*.
- p. 1358 *marylandia* Gir., *Omphalopsis*. Change to *marylandia* Grt.
- p. 1359 *melanderi* Ckll., *Nomia*. Add [s]. *melanochroa* Ckll. Add [s]. *melanomerus* Vier., *Campoplex*. Change to *melanomerus*. add *mellea* Grt., *Stenomesioidea* p. 460.
- p. 1360 *melligera* Llave. Add p. 856. *mensae* Ckll. Change p. 1215 to 1216. *mentalis* (Davis). Change *Polyoncus* to *Lathrolestes*. *metacomet* Vier. Change p. 246 to 247.
- p. 1361 *metallica* Gah. Place authors name in parentheses. *mexicanus* Wesm., *Myrmecocystus*. Add p. 856. *miamensis* Roh. Add [s].
- p. 1361 *micans* How. Change to *micans*. *microcosmus* Gir. Change to *microcosmus* Grt.
- p. 1362 *minuta* Cush., *Hythobia*. Change to *Nythobia*. *minuta* Say, *Myrmica*. Change to *minuta*. *minutissima* Mayr, *Crematogaster*. Add [s]. *minutus* Mayr, *Cyphomyrmex*. Add p. 829. *mirabilis* Vier. Change to *mirabilis*.
- p. 1363 *modestus* Amer. auct. Add *Coccophagus*.
- p. 1364 *munitis* Cress. Change to *munitus*.
- p. 1365 *murdtfeldtiae* Marl. Change to *murtfeldtiae*. *nebulosa* Mick., *Timulla*. Add [s].
- p. 1366 *neglectus* (Morl.). Change to *neglectum*. *nemorosus* MacG., *Dolerus*. Change to *nemorosus*. *neutialis* (Cress.). Change p. 300 to 299. *nicaraguanum* Kohl. Change to *nicaraguanum*.

- p. 1367 *niger* Fullaw., Ceroptres. Delete p. 653.
add *nigrae* O. S., Cynips q. p. 650.
add *nigriclavus* Grlt., Scelioencyrtus p. 502.
- p. 1368 *nigripennis* Fox, Notogonia. Change p. 945 to 954.
- p. 1369 *nigriventris* (Curr.), Nematus. Change to *nigriventris* Curr., Pteronidea.
- p. 1370 *nitschei* D. T. Change to *nitschei*.
add *nodus* Walsh, Euura p. 50.
nomadoides Spin. Change to *nomadoides*.
nonstylatus Grlt., Trigonoderus. Change p. 545 to 546.
- p. 1370 *nortoni* Cress., Nomia. Add p. 1128.
add *notha* O. S., Cynips q. p. 646.
nova (Nort.). Change Selandria to Adelesta.
add *nubila* Bass., Cynips q. p. 641.
add *nubila* Mayr, Dryophanta p. 641.
- p. 1371 add *obscuripostica* Vier., Andrena p. 1074.
add *obscurissimus* Perkins, Neogonatopus p. 1038.
add *obscuriventris* Mayr [s] p. 870.
obtusa Klug, Tenthredo. Change p. 28 to 82.
- p. 1372 add *obtusilobae* Karsch, Cynips q. p. 614.
occidentalis Cress., Ephialtes. Change p. 182 to 189.
occidentalis (Emery), Aphaenogaster [s]. Change p. 794 to 797.
- p. 1373 *odontandroplox* End. Change Rhynachophion to Rhynchophion.
- p. 1374 *orgyiae* (Fitch), Eulophus. Change p. 403 to 430.
ornatus Grav. Change p. 269 to 287.
ornatus Prov., Cryptus. Change p. 267 to 269.
orpifex Sm. Add [s].
add *osten sackenii* Bass., Cynips q. p. 635.
- p. 1375 add *ovulum* Walsh, Euura p. 50.
add *ovum* Walsh, Euura p. 50.
pacifica Prov. Change Snyairema to Synairema.
pacificus McC. & Egb., Synergus. Change p. 616 to 612.
palachei (Ashm.). Change Anoplolyda to Pamphilus.
pallide-fulva. Change L. to Latr. and p. 558 to 858, 859.
- p. 1376 *pallidimacula* D. T. Change to *pallidimacula*.
pallipennis Prov., Hemiteles. Change to *pallipennis*.
pallipes Nees. Add p. 112.
paludicola D. T., Halictus. Change p. 1151 to 1115.
- p. 1376 add *palustris* Mayr, Cynips q. p. 646.
add *palustris* O. S., Cynips q. p. 646.
- p. 1377 *parenos* Pate, Diodontus. Add [s].
parradesi Sauss. Change to *parredesi*.
partiaeniceps Gir. Change to *partiaeniceps* Grlt.
parvus Robt., Calliopsis. Change to *parvus* and add p. 1100.
- p. 1378 *pectorale* Ashm. Change Astiphtomma to Astiphromma.
pectoratorius (Thunb.). Change p. 389 to 349.
add *pegasus* Harris, Crabro p. 1016.
- p. 1379 *perilampoides* Gir. Change to *perilampoides* Grlt.
- p. 1380 add *petiolicola* Bass., Cynips q. p. 635.
- p. 1381 *picea* (Riley), Arachnophaga. Add p. 512.
pictus Davis. Change Mesoleptua to Mesoleptus.
pieridis Prov. Change to *pieridis*.
pikei Roh. Change to *pikei*.
pilicornis (Holmgr.). Change Sphacophilus to Sofus.

- p. 1382 *pinguidorsum* Dyar. Change to *pinguidorsum*.
pini Tay., Eupelmus. Change p. 510 to 511.
 add *pisum* Walsh, Nematus p. 51.
placida Sm., Andrena. Add [s].
plenus Robt., Gnathias [f]. Change p. 1169 to 1196.
plesius Fen., Epigonatopus. Change to *plesuis*.
- p. 1383 add *podagrae* Walsh, Cynips q. p. 652.
politus Say, Philanthus [s]. Change p. 1001 to 1002.
transf. polygraphi (Ashm.), Cecidostiba and *polygraphi* (Ashm.),
Eurytoma to follow *polygoni* Vier. & Ckll., and delete duplicate
entry polygraphi (Ash.), *Eurytoma*.
- p. 1383 add *pomiformis* Bass., Cynips q. p. 651.
 add *pomum* Walsh, Nematus p. 49.
- p. 1384 *popa* Grlt., Eupelmus. Change p. 510 to 511.
poppigii (Brisch. & Zadd.). Change to *pöppigii*.
populi (Marl.), Nematus. Add p. 48.
primus Cwfd. Change *Eriodontomerus* to *Eridontomerus*.
- p. 1385 *pruni* Robt. Change p. 1077 to 1078.
prunicola Ckll. Change p. 1077 to 1078.
prunifloris Ckll. Change p. 1077 to 1078.
 add *prunus* Mayr, Amphibolips p. 631.
 add *prunus* Walsh & Riley, Cynips q. p. 631.
- p. 1386 *pteronidea* (Roh.). Change to *pteronideae*.
pudicum (Sandh.), Lasioglossum. Change p. 1116 to 1117.
pumilis (Cress.), Eriplanus. Change to *pumilus*.
- p. 1387 add *punctata* Bass., Cynips q. p. 652.
punctifacies Gir. Change to *punctatifacies* Grlt.
- p. 1388 *quadricarinatus* Grlt., Ooctonus. Change p. 410 to 411.
quercus Gir., Eupelmus. Change author to Ashm. and p. 510 to 511.
quercus Knw. Change to *quercus*.
- p. 1389 *refractaria* MacG. Change to *refractaria*.
- p. 1390 *rileyanus* Vier. Change p. 124 to 134.
 add *rileyi* Bass., Cynips q. p. 623.
 add *rileyi* Mayr, Neuroterus p. 623.
- p. 1391 *robertsonii* D. T., Colletes. Add [s].
robusta Brisch. Change *Dimorpha* to *Dimophora*.
rohweri Schwarz, Anthidium. Change p. 142 to 1142.
- p. 1392 *rubricus* Prov. Change *Allanthus* to *Allantus*.
ruficornis Davis, Hadrodactylus. Change p. 933 to 339.
- p. 1392 *ruficornis* F., Larra. Change p. 339 to 993.
- p. 1393 *ruficoxalis* Vier., Campoplex. Change p. 375 to 378.
 add *ruficoxus* Prov., Mesostenus p. 253.
- p. 1394 *rugosolum* Fouts. Change to *rugosulum*; correct p. 732.
- p. 1395 *rustica* Cress., Osmia. Change p. 1165 to 1163.
salicicola Ashm., Limneris. Change to *Limneria*.
sambornii (Blake), Pseudomethoca. Change to *sanbornii*.
- p. 1396 *sanguineum* (Prov.), Cternopelma. Change to *Ctenopelma*.
scaevolella (Ckll. & Casad). Change to *scaevolella*.
schoberi (D. T.). Change p. 255 to 256.
- p. 1397 add *scitula* Bass., Cynips q. p. 652.
scorppides Mues. & Walkl. Change to *scorpoidea*.
- p. 1399 *septientronalis* (Schlett.). Change to *septentrionalis*, and place
 before *septentrionalis* (Brues) on p. 1398.

- p. 1400 *similis* (Ashm.), *Proaspicera*. Change to *Prosaspicera*.
 add *similis* Bass., *Cynips* q. p. 652.
similis (Nort.), *Dolerus*. Add [s].
simulans Cress., *Colletes*. Add [s].
 add *singularis* Bass., *Cynips* q. p. 636.
sitkaënsis Perg. Change p. 850 to 851.
- p. 1401 *smerinthi* Riley. Change to *smerinthi*.
solitaris (Dyar). Change to *solitaris*.
- p. 1402 *spiloptera* Ckll. Change to *spiloptera*.
 add *spinosa* Ashm., *Rhodites* p. 618.
spongifica (O. S.). Add p. 631.
- p. 1404 *subfulvus* (Cress.). Place before *subfusca* (Kief.).
sunconnexus Ellis. Change to *subconnexus*.
- p. 1405 *subtilis* Sm., *Andrena*. Add [s].
 add *succinctus* Cress., *Crabro* p. 1016.
- p. 1406 add *suttoni* Bass., *Cynips* q. p. 652.
 add *suttoni* Mayr, *Andricus* p. 652.
sylvarum Curt. Change p. 408 to 407.
tarsalis (Ashm.), *Trigonura*. Change to *tarsalis* Ashm., *Chalcis*.
tarsata (D. T.), *Trigoneura*. Change to *Trigonura*.
tegularis (Cress.), *Brachymeria*. Change p. 587 to 588.
- p. 1407 *teritius* Gir. Change to *tertius* Grlt.
testaceicornis (Cam.), *Dicaelotus*. Change p. 290 to 280.
testudinea (Klug). Change *Tenthredo* to *Hoplocampa*.
- p. 1408 *texana* Cress., *Mutilla*. Add [v].
texanus How., *Blepyrus*. Change to *texanus*.
- p. 1409 *thomsoni* Fyles. Change to *thomsoni*.
ticheriae Vier. Change to *tischeriae*.
- p. 1410 *tortricola* Ashm. Change to *tortricola*.
- p. 1411 *trisculcatus* Prov. Change to *trisulcatus*.
- p. 1412 *undata* Klug. Change p. 744 to 774.
unguttus Grlt., *Trigonoderus*. Change p. 545 to 546.
- p. 1413 add *utricula* Bass., *Cynips* q. p. 636.
- p. 1414 *variicornis* How. Change author to D. T.
- p. 1415 add *ventricosus* Bass., *Cynips* q. p. 653.
verbesinae Ckll., *Perdita*. Add [s].
versatilis (Bridw.). Add [s].
vestita Prov. Add p. 1053.
- p. 1416 *vidua* Walsh. Change *Tromatobia* to *Pimpla*.
vincta Say, *Nomada* [s]. Add p. 1201.
- p. 1417 *viridaeneus* (Prov.). Change *Euplectrus* to *Elachertus*.
vitis (Harr.), *Erythraspides*. Change p. 69 to 68.
vulpinus Szép. Change p. 304 to 305.
- p. 1418 *westwoodii* Shipp. Change to *westwoodii*.
wheeleri Graen., *Andrena*. Add [s].
 add *wheeleri* Grlt., *Pheidoloxenus* p. 506.
wickhami (Ashm.). Change *Torymus* to *Erimerus*.
 add *xanthochrous* Handl., *Stizus* p. 994.
- p. 1419 *zabriskiei* How. Change to *zabriskiei*.
zonata Cress., *Polistiphaga*. Change author to Cush.

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brevicinctus (Prov.), Amydraulax	44	californica Cress., Xylocopa[s]	259
brevicorne (Mayr), Stenamma	116	californica Emery, Crematogaster	125
brevicornis (Ashm.), Saphonecerus	85	californica (How.), Morania	75
brevicornis Ashm., Synergus	85	californica (Kief.), Hexacola	85
brevicornis Cress., Melissodes	250	californica Mayr, Pheidole[s]	120
brevicornis (Cress.), Svastra	253	californica (Mues.), Agathis	26
brevicornis Emery, Lasius[s]	148	californica Schus., Ephuta	104
brevicornis (Grav.), Scambus	37	californica Timb., Andrena[s]	213
brevicornis Mues., Syntretus	20	californica (Timb.), Hemisia	257
brevicornis Patt., Ceropales	177	californica Whlr., Formica[s]	160
brevicornis Prov., Cryptus	44	californica Whlr., Prenolepis[s]	147
brevicornis Ratz., Pteromalus	79	californica Wms., Pisonopsis[s]	187
brevithirtus Timb., Colletes	206	californicum Bohart & Schlinger, Oxybelus	200
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<i>canadensis</i> Prov., <i>Exenterus</i>	30	<i>ceratoniae</i> Riley, <i>Microplitis</i>	30
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<i>fraterna</i> Sm., <i>Ceropales</i> [s]	178	<i>GELINI</i>	44
<i>fraternus</i> (Bks.), <i>Anoplius</i>	182	<i>Gelis</i> Thunb.	44
<i>fraternus</i> Say, <i>Stigmus</i> [s]	190	<i>geminata</i> (F.), <i>Solenopsis</i> [s]	129
<i>fraternus</i> Tow. & Tow., <i>Idiogramma</i>	40	<i>geminata</i> (Say), <i>Netelia</i>	40
<i>frazieri</i> Bohart, <i>Stenodynerus</i> [s]	168	<i>gemina</i> Bugbee, <i>Eurytoma</i> [s]	80
<i>frequens</i> Perk., <i>Chalcogonatopus</i>	99	<i>geniculata</i> Foerst., <i>Systole</i>	82
<i>friedlandi</i> Creigh., <i>Anergates</i>	130	<i>georgica</i> Cress., <i>Melissodes</i>	241
<i>friesei</i> Ckll., <i>Diadasia</i>	248	<i>georgica</i> (Cress.), <i>Svastra</i> [s]	254
<i>frigida</i> Sm., <i>Andrena</i>	214	<i>georgica</i> Timb., <i>Perdita</i>	222
<i>frigida</i> Sm., <i>Megachile</i> [s]	245	<i>geraeae</i> Timb., <i>Perdita</i> [s]	218
<i>frigida</i> (Sm.), <i>Pseudomethoca</i> [s]	103	<i>geraei</i> (Mues.), <i>Bracon</i>	24
<i>frigidus</i> Sm., <i>Crabro</i>	199	<i>geranii</i> Robt., <i>Andrena</i>	214
<i>frigidus</i> (Ashm.), <i>Mesoleius</i>	56	<i>geranii-maculati</i> Vier., <i>Andrena</i>	214
<i>frisoni</i> Ross, <i>Dolerus</i>	12	<i>gerardi</i> Hickok, <i>Pteromalus</i>	67
<i>frontale</i> Robt., <i>Oxybelus</i>	201	<i>germana</i> (Cress.), <i>Prionemius</i>	173
<i>frontalis</i> Ashm., <i>Polyclistus</i>	59	<i>gerrophagus</i> (March.), <i>Tiphodytes</i>	92
<i>frontalis</i> Latr., <i>Sparasion</i>	93	<i>gerrophaga</i> (Doutt), <i>Patasson</i>	63
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<i>frontosus</i> (Davis), <i>Perilissus</i>	55	<i>gibboceps</i> Bohart, <i>Leptochilus</i>	165
<i>fulgidus</i> Swenk, <i>Colletes</i> [s]	206	<i>gibbosa</i> (Say), <i>Agathis</i>	26
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<i>fulva</i> (Mayr), <i>Paratrechina</i>	146	<i>gilensis</i> Ckll., <i>Colletes</i>	206
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<i>fulviceps</i> Cam., <i>Myzinum</i> [s]	161	<i>gillarum</i> Ckll., <i>Osmia</i>	243
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<i>fulvipennis</i> Sm., <i>Andrena</i>	214	<i>gilvoscens</i> Whlr., <i>Formica</i> [v]	160
<i>fulvipes</i> Cress., <i>Ceropales</i>	178	<i>gilvoscens</i> Whlr., <i>Pheidole</i>	122
<i>fulvipes</i> Fox, <i>Stigmus</i>	190	<i>gilvus</i> Whlr., <i>Leptothorax</i> [v]	132
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<i>melliventris</i> Cress., <i>Andrena</i>	214	<i>militaris</i> (Walsh), <i>Apanteles</i>	29
<i>melvillei</i> Comp., <i>Tropidophryne</i>	72	<i>militarius</i> (Thunb.), <i>Aoplos</i>	49
<i>membranifera</i> (Emery), <i>Trichoscapa</i>	137	<i>militarius</i> (Thunb.), <i>Stenichneumon</i>	50
<i>mendax</i> Whlr., <i>Myrmecocystus</i>	152	<i>millitida</i> Whlr., <i>Pheidole</i>	122
<i>mendica</i> Cress., <i>Megachile</i>	244	<i>Mimesa</i> Shuck.	189
<i>mentalis</i> (Davis), <i>Lathrolestes</i>	55	<i>mimica</i> Bugbee, <i>Eurytoma</i> [s]	81
<i>mentha</i> Bugbee, <i>Tenuipetiolus</i>	80	<i>mimicus</i> Whlr., <i>Myrmecocystus</i>	152
<i>merceti</i> (Compere), <i>Comperia</i>	70	<i>Mimomesa</i> Mall.	189
<i>meridianus</i> Tow., <i>Auplopus</i> [s]	174	<i>Minagenia</i> Bks.	176
<i>meridionale</i> Sm., <i>Stenamma</i>	116	MINAGENIINI	176
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<i>meridionalis</i> Vier., <i>Symmorphus</i>	165	<i>minima</i> Prov., <i>Ceropales</i>	178
<i>meromyzae</i> Gah., <i>Bracon</i>	35	<i>minimoferus</i> Bohart, <i>Stenodynerus</i>	168
<i>merrilli</i> Mues., <i>Allotropa</i>	94	<i>minimum</i> (Buckl.), <i>Monomorium</i> [s]	128
<i>merntiensae</i> Timb., <i>Colletes</i> [s]	208	<i>minimus</i> Prov., <i>Semiotellus</i>	84
<i>mesae</i> Ckll., <i>Hoplitis</i>	240	<i>minnesotaensis</i> Cam., <i>Odynerus</i>	169
<i>mesacalerium</i> Ckll., <i>Hoplitis</i> [s]	238	<i>minnesotaensis</i> (Cam.), <i>Stenodynerus</i>	168
<i>mescalero</i> Pate, <i>Motes</i>	188	<i>minor</i> (Cress.), <i>Neivamyrmex</i>	109
<i>mesillense</i> (Ckll.), <i>Lasioglossum</i>	230	<i>minor</i> Mick., <i>Notoglossa</i>	201
<i>Mesitopteris</i> Ashm.	96	<i>minor</i> Tow. & Tow., <i>Eorabia</i>	41
MESOCHORINAE	62	<i>minorata</i> Bks., <i>Prionemism</i>	173
<i>mesocopus</i> Swenk, <i>Colletes</i> [s]	206	<i>mintaka</i> Brim., <i>Ageniella</i>	175
<i>Mesoecryptus</i> Thoms.	47	<i>minuscule</i> (Bks.), <i>Prionemism</i>	173
MESOLEIINAE	54	<i>minuscule</i> (Bks.), <i>Evagretes</i> [s]	180
MESOLEIINI	54	<i>minuscule</i> Wld., <i>Dryocostus</i>	88
<i>Mesoleius</i> Holmg.	55	<i>minuta</i> Ashm., <i>Megaspilidea</i>	89
<i>Mesoplia</i> Lep.	259	<i>minuta</i> Emery, <i>Prenolepis</i> [v]	147
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<i>Mesostenus</i> Grav.	46	<i>minuta</i> Schus., <i>Ephuta</i> [s]	106
<i>Messa</i> Leach	12	<i>minutor</i> Forel, <i>Cardiocondyla</i> [s]	125
<i>Messatoporus</i> Cush.	48	<i>minutissimum</i> Pack., <i>Trichogramma</i>	63
<i>Metacolus</i> Foerst.	76	<i>minutissimus</i> (Bohart), <i>Leptochilus</i>	165
<i>Metacrabro</i> Ashm.	199	<i>minutum</i> Cwfd., <i>Chelostoma</i>	235
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<i>metallica</i> Kief., <i>Parachrysis</i>	97	<i>minutus</i> (Cress.), <i>Cardiochilus</i>	30
<i>metallicus</i> (Banks), <i>Auplopus</i> [s]	174	<i>minutus</i> Dreis., <i>Pompilinus</i>	182
<i>meteor</i> Ashm., <i>Elasmus</i>	69	<i>minutus</i> Emery, <i>Lasius</i>	149
<i>Meteorius</i> Hal.	19	<i>minutus</i> Roh., <i>Tachytes</i>	188
<i>Methocha</i> Latr.	101	<i>minyas</i> Wlkr., <i>Eulophus</i>	84
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<i>mexicana</i> (Sm.), <i>Atta</i>	138	<i>Mirax</i> Hal.	27
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neomexicanus Mues., Apanteles	29	nigripes Cress., Agathis	26																																																																																																																																																																																																																																																																																																																																												
neoniger Emery, Lasius	148	nigripes Park., Steniolia	195	Neopasites Ashm.	247	nigripes Prov., Nysson	193	Neopolytelus Hincks	78	nigripes Sm., Aphaenogaster[v]	117	Neoponera Emery	111	nigripes Sm., Melissodes	250	neorufibarbis Emery, Formica[s]	157	nigripes (Vier.), Campoplex	59	Neotiphia Mall.	101	nigrisoma Nort., Taxonus	14	neotropicalis (Cam.), Sericopompilus	181	nigristigma Prov., Emphytus	16	Neotryptes Robt.	235	nigriteleus Sm., Aphidius	18	NEOXORIDINI	38	nigrithorax Mues., Crassomicrodus	25	Neoxylocopa Mich.	259	nigritus How., Aphelinus	65	nephelotus Lvl. & Ckll., Sphecodes	231	nigritus (Prov.), Microctonus	20	nephopteris (Pack.), Apanteles	29	nigriiventris Ashm., Monoblastus	55	Nepiera Foerst.	60	nigriiventris Mues., Oncophanes	35	nepticulae (Roh.), Gnaptodon	32	nigrobarbata Ckll., Osmia	243	neptis Burks, Chalcis	83	nigrocaerulea Timb., Perdita	225	nesiotis Timb., Andrena[s]	213	nigrocephalus (Davis), Eudiaborus	42	Nesomyrmex Whlr.	130	nigromaculata Timb., Nomadopsis	229	Netelia Gray	40	nigropilosella Cam., Plesia	107	Neuroterus Htg.	86	nigropyga Shen., Atanycolus	33	Neurotoma Knw.	8	nigroscutum Midd., Neodiprion	10	neutralis Cress., Ichneumon	52	nigrosignata Ckll., Melissodes	252	nevadense (Cwfd.), Lasioglossum	230	nigrosternum (Morr.), Cremnops	25	nevadensis Ashm., Bracon	34	nigrosus Ashm., Kleidotoma	88	nevadensis (Cam.), Symmorphus[s]	165	nigrotrochanterica (Vier.), Agathis	26	nevadensis Ckll., Perdita[s]	225	nigrum Robt., Oxybelus	202	nevadensis Cole, Lasius	149	nigrovarius Prov., Ophion	62	nevadensis (Cress.), Anthedonia	249	nigroviridis Timb., Perdita	225	nevadensis (Cress.), Lycogaster[s]	100	Nitela Latr.	187	nevadensis Cress., Nomia[s]	233	Nitelopterus Ashm.	187	nevadensis Kief., Aclista	92	nitens Emery, Leptothorax[s]	132	nevadensis (Kief.), Phaenoserphus	89	nitens Timb., Perdita	226	nevadensis Swenk, Colletes[s]	209	nitens Zadd., Dolerus	11	nevadensis Timb. & Mich., Proteriadess[s]	239	nitescens Timb., Colletes	208	nevadensis Whlr., Formica	157	nitida F., Spheg	170	nevadensis Whlr., Leptothorax[s]	132	nitidicaudus Ckll., Colletes	207	Nictula Burks	54	nitidicornis Ckll., Andrena	215	nidulans Thoms., Pteromalus	77	nitidiventris Emery, Camponotus[v]	145	nifoata Ckll., Osmia	243	nitidiventris Emery, Formica[s]	153	nifoata Ckll., Osmia	244	nitidiventris (Fox), Nothocrabro	198	nigellus Emery, Iridomyrmex[s]	140	nitidivitta Mich., Anthocopa	241	niger (Ashm.), Atractodes	45	nitidus Gah., Ephedrus	18	niger (Ashm.), Phygadeuon	45	nitratu Cook, Pogonomyrmex[s]	114	niger (Ashm.), Thyasium	69	niveltarsis (Cress.), Meteorus	20	niger (Cress.), Aporus	179	nocticola Brad., Brachycistis	101	niger Fen., Chalcogonatopus	100	noctilio F., Sirex	16	niger (L.), Lasius	148	nocturna Mick., Dasymutilla	104	niger Mitch., Acricornus[s]	47	nogalensis Byars, Trachymyrmex	137	niger Perg., Dorymyrmex[v]	141	Nomada Scop.	246	niger Prov., Crabro	198	Nomadopsis Ashm.	229	nigerrimus (Scop.), Anoplius	183	Nomamyrmex Borg.	108	nigra Timb. & Mich., Proteriadess	240	Nomia Latr.	233	nigrans Krom., Solierella	187	nortoni Cress., Nomia	233	nigratorius F., Ichneumon	52	nortonii Buckl., Formica	161	nigrella Mich., Proteriadess[s]	239	Nothocrabro Pate	198	nigrella Timb., Perdita	225	Nothosmia Ashm.	244	nigrellus (Bks.), Auplopus	174	Notiochares Bks.	181	nigrescens (Cress.), Neivamyrmex	109	NOTOCYPHINI	177	nigrescens Evans, Dissomphalus	98	Notocyphus Sm.	177	nigrescens Martin, Urosigalphus	22	Notogonius How.	188	nigrescens Whlr., Pogonomyrmex[v]	114	Notoxylocopa Hurd	259	nigricans Cam., Acanthochalcis	83	nova-anglae Buckl., Formica	161	nigricans Tow., Proctoness	171	novae-anglae Vier., Perdita	226	nigriciauda (Vier.), Agathisia	25	novaeboracensis Buckl., Myrmica	127, 139	nigriciaudus (Fri.), Bombus[v]	260	novaeboracensis (Fitch), Camponotus	142	nigricreps Ashm., Apteroelaps	74	novifasciatus (Grlt.), Lymaenon	63	nigricreps Ashm., Prostanteris	93	Novomessor Emery	119	nigricollis Timb., Perdita	225	nubila (LaBerge), Svastra[s]	255	nigricornis F., Sirex	16	nubilipennis (Nort.), Rhadinoceraea	15	nigricornis Prov., Pteromalus	84	nuda Robt., Andrena	215	nigricorpus Mitch., Sphecodes	232	nuda Tow., Pimpla	38	nigricoxa (Prov.), Agathis	26	nudus Robt., Colletes	208	nigriculus Wlkl., Ichneumon	52	nulbilineatus (!) Hopk., Hippocephalus	68	nigridens Wesm., Phaenogenes	48	nulla LaBerge, Melissodes[s]	250	nigridorsis Vier., Macrocentrus	21	nuperus Cress., Bracon	34	nigrifacies Timb., Perdita	225	Nylanderia Emery	146	nigrifemora Ashm., Sympiesis	64	Nysson Latr.	192	nigrifrons Cress., Osmia	243	NYSSONINAE	192	nigrifrons (Prov.), Microbembex	196	Nyzeophilus Foerst.	47	nigrifrons Titus, Colletes	208			nigrigena Mich., Osmia[s]	243			nigrior Mich., Anthocopa	240	oahuensis Ashm., Idechthis	59	nigrior Tow., Dipogon[s]	172	obductus Fox, Tachytes	188	nigripennis Prov., Anomalon	62	oblata Weld, Callirhytis	88			obliqua (Say), Melissodes	251
Neopasites Ashm.	247	nigripes Prov., Nysson	193	Neopolytelus Hincks	78	nigripes Sm., Aphaenogaster[v]	117	Neoponera Emery	111	nigripes Sm., Melissodes	250	neorufibarbis Emery, Formica[s]	157	nigripes (Vier.), Campoplex	59	Neotiphia Mall.	101	nigrisoma Nort., Taxonus	14	neotropicalis (Cam.), Sericopompilus	181	nigristigma Prov., Emphytus	16	Neotryptes Robt.	235	nigriteleus Sm., Aphidius	18	NEOXORIDINI	38	nigrithorax Mues., Crassomicrodus	25	Neoxylocopa Mich.	259	nigritus How., Aphelinus	65	nephelotus Lvl. & Ckll., Sphecodes	231	nigritus (Prov.), Microctonus	20	nephopteris (Pack.), Apanteles	29	nigriiventris Ashm., Monoblastus	55	Nepiera Foerst.	60	nigriiventris Mues., Oncophanes	35	nepticulae (Roh.), Gnaptodon	32	nigrobarbata Ckll., Osmia	243	neptis Burks, Chalcis	83	nigrocaerulea Timb., Perdita	225	nesiotis Timb., Andrena[s]	213	nigrocephalus (Davis), Eudiaborus	42	Nesomyrmex Whlr.	130	nigromaculata Timb., Nomadopsis	229	Netelia Gray	40	nigropilosella Cam., Plesia	107	Neuroterus Htg.	86	nigropyga Shen., Atanycolus	33	Neurotoma Knw.	8	nigroscutum Midd., Neodiprion	10	neutralis Cress., Ichneumon	52	nigrosignata Ckll., Melissodes	252	nevadense (Cwfd.), Lasioglossum	230	nigrosternum (Morr.), Cremnops	25	nevadensis Ashm., Bracon	34	nigrosus Ashm., Kleidotoma	88	nevadensis (Cam.), Symmorphus[s]	165	nigrotrochanterica (Vier.), Agathis	26	nevadensis Ckll., Perdita[s]	225	nigrum Robt., Oxybelus	202	nevadensis Cole, Lasius	149	nigrovarius Prov., Ophion	62	nevadensis (Cress.), Anthedonia	249	nigroviridis Timb., Perdita	225	nevadensis (Cress.), Lycogaster[s]	100	Nitela Latr.	187	nevadensis Cress., Nomia[s]	233	Nitelopterus Ashm.	187	nevadensis Kief., Aclista	92	nitens Emery, Leptothorax[s]	132	nevadensis (Kief.), Phaenoserphus	89	nitens Timb., Perdita	226	nevadensis Swenk, Colletes[s]	209	nitens Zadd., Dolerus	11	nevadensis Timb. & Mich., Proteriadess[s]	239	nitescens Timb., Colletes	208	nevadensis Whlr., Formica	157	nitida F., Spheg	170	nevadensis Whlr., Leptothorax[s]	132	nitidicaudus Ckll., Colletes	207	Nictula Burks	54	nitidicornis Ckll., Andrena	215	nidulans Thoms., Pteromalus	77	nitidiventris Emery, Camponotus[v]	145	nifoata Ckll., Osmia	243	nitidiventris Emery, Formica[s]	153	nifoata Ckll., Osmia	244	nitidiventris (Fox), Nothocrabro	198	nigellus Emery, Iridomyrmex[s]	140	nitidivitta Mich., Anthocopa	241	niger (Ashm.), Atractodes	45	nitidus Gah., Ephedrus	18	niger (Ashm.), Phygadeuon	45	nitratu Cook, Pogonomyrmex[s]	114	niger (Ashm.), Thyasium	69	niveltarsis (Cress.), Meteorus	20	niger (Cress.), Aporus	179	nocticola Brad., Brachycistis	101	niger Fen., Chalcogonatopus	100	noctilio F., Sirex	16	niger (L.), Lasius	148	nocturna Mick., Dasymutilla	104	niger Mitch., Acricornus[s]	47	nogalensis Byars, Trachymyrmex	137	niger Perg., Dorymyrmex[v]	141	Nomada Scop.	246	niger Prov., Crabro	198	Nomadopsis Ashm.	229	nigerrimus (Scop.), Anoplius	183	Nomamyrmex Borg.	108	nigra Timb. & Mich., Proteriadess	240	Nomia Latr.	233	nigrans Krom., Solierella	187	nortoni Cress., Nomia	233	nigratorius F., Ichneumon	52	nortonii Buckl., Formica	161	nigrella Mich., Proteriadess[s]	239	Nothocrabro Pate	198	nigrella Timb., Perdita	225	Nothosmia Ashm.	244	nigrellus (Bks.), Auplopus	174	Notiochares Bks.	181	nigrescens (Cress.), Neivamyrmex	109	NOTOCYPHINI	177	nigrescens Evans, Dissomphalus	98	Notocyphus Sm.	177	nigrescens Martin, Urosigalphus	22	Notogonius How.	188	nigrescens Whlr., Pogonomyrmex[v]	114	Notoxylocopa Hurd	259	nigricans Cam., Acanthochalcis	83	nova-anglae Buckl., Formica	161	nigricans Tow., Proctoness	171	novae-anglae Vier., Perdita	226	nigriciauda (Vier.), Agathisia	25	novaeboracensis Buckl., Myrmica	127, 139	nigriciaudus (Fri.), Bombus[v]	260	novaeboracensis (Fitch), Camponotus	142	nigricreps Ashm., Apteroelaps	74	novifasciatus (Grlt.), Lymaenon	63	nigricreps Ashm., Prostanteris	93	Novomessor Emery	119	nigricollis Timb., Perdita	225	nubila (LaBerge), Svastra[s]	255	nigricornis F., Sirex	16	nubilipennis (Nort.), Rhadinoceraea	15	nigricornis Prov., Pteromalus	84	nuda Robt., Andrena	215	nigricorpus Mitch., Sphecodes	232	nuda Tow., Pimpla	38	nigricoxa (Prov.), Agathis	26	nudus Robt., Colletes	208	nigriculus Wlkl., Ichneumon	52	nulbilineatus (!) Hopk., Hippocephalus	68	nigridens Wesm., Phaenogenes	48	nulla LaBerge, Melissodes[s]	250	nigridorsis Vier., Macrocentrus	21	nuperus Cress., Bracon	34	nigrifacies Timb., Perdita	225	Nylanderia Emery	146	nigrifemora Ashm., Sympiesis	64	Nysson Latr.	192	nigrifrons Cress., Osmia	243	NYSSONINAE	192	nigrifrons (Prov.), Microbembex	196	Nyzeophilus Foerst.	47	nigrifrons Titus, Colletes	208			nigrigena Mich., Osmia[s]	243			nigrior Mich., Anthocopa	240	oahuensis Ashm., Idechthis	59	nigrior Tow., Dipogon[s]	172	obductus Fox, Tachytes	188	nigripennis Prov., Anomalon	62	oblata Weld, Callirhytis	88			obliqua (Say), Melissodes	251				
Neopolytelus Hincks	78	nigripes Sm., Aphaenogaster[v]	117	Neoponera Emery	111	nigripes Sm., Melissodes	250	neorufibarbis Emery, Formica[s]	157	nigripes (Vier.), Campoplex	59	Neotiphia Mall.	101	nigrisoma Nort., Taxonus	14	neotropicalis (Cam.), Sericopompilus	181	nigristigma Prov., Emphytus	16	Neotryptes Robt.	235	nigriteleus Sm., Aphidius	18	NEOXORIDINI	38	nigrithorax Mues., Crassomicrodus	25	Neoxylocopa Mich.	259	nigritus How., Aphelinus	65	nephelotus Lvl. & Ckll., Sphecodes	231	nigritus (Prov.), Microctonus	20	nephopteris (Pack.), Apanteles	29	nigriiventris Ashm., Monoblastus	55	Nepiera Foerst.	60	nigriiventris Mues., Oncophanes	35	nepticulae (Roh.), Gnaptodon	32	nigrobarbata Ckll., Osmia	243	neptis Burks, Chalcis	83	nigrocaerulea Timb., Perdita	225	nesiotis Timb., Andrena[s]	213	nigrocephalus (Davis), Eudiaborus	42	Nesomyrmex Whlr.	130	nigromaculata Timb., Nomadopsis	229	Netelia Gray	40	nigropilosella Cam., Plesia	107	Neuroterus Htg.	86	nigropyga Shen., Atanycolus	33	Neurotoma Knw.	8	nigroscutum Midd., Neodiprion	10	neutralis Cress., Ichneumon	52	nigrosignata Ckll., Melissodes	252	nevadense (Cwfd.), Lasioglossum	230	nigrosternum (Morr.), Cremnops	25	nevadensis Ashm., Bracon	34	nigrosus Ashm., Kleidotoma	88	nevadensis (Cam.), Symmorphus[s]	165	nigrotrochanterica (Vier.), Agathis	26	nevadensis Ckll., Perdita[s]	225	nigrum Robt., Oxybelus	202	nevadensis Cole, Lasius	149	nigrovarius Prov., Ophion	62	nevadensis (Cress.), Anthedonia	249	nigroviridis Timb., Perdita	225	nevadensis (Cress.), Lycogaster[s]	100	Nitela Latr.	187	nevadensis Cress., Nomia[s]	233	Nitelopterus Ashm.	187	nevadensis Kief., Aclista	92	nitens Emery, Leptothorax[s]	132	nevadensis (Kief.), Phaenoserphus	89	nitens Timb., Perdita	226	nevadensis Swenk, Colletes[s]	209	nitens Zadd., Dolerus	11	nevadensis Timb. & Mich., Proteriadess[s]	239	nitescens Timb., Colletes	208	nevadensis Whlr., Formica	157	nitida F., Spheg	170	nevadensis Whlr., Leptothorax[s]	132	nitidicaudus Ckll., Colletes	207	Nictula Burks	54	nitidicornis Ckll., Andrena	215	nidulans Thoms., Pteromalus	77	nitidiventris Emery, Camponotus[v]	145	nifoata Ckll., Osmia	243	nitidiventris Emery, Formica[s]	153	nifoata Ckll., Osmia	244	nitidiventris (Fox), Nothocrabro	198	nigellus Emery, Iridomyrmex[s]	140	nitidivitta Mich., Anthocopa	241	niger (Ashm.), Atractodes	45	nitidus Gah., Ephedrus	18	niger (Ashm.), Phygadeuon	45	nitratu Cook, Pogonomyrmex[s]	114	niger (Ashm.), Thyasium	69	niveltarsis (Cress.), Meteorus	20	niger (Cress.), Aporus	179	nocticola Brad., Brachycistis	101	niger Fen., Chalcogonatopus	100	noctilio F., Sirex	16	niger (L.), Lasius	148	nocturna Mick., Dasymutilla	104	niger Mitch., Acricornus[s]	47	nogalensis Byars, Trachymyrmex	137	niger Perg., Dorymyrmex[v]	141	Nomada Scop.	246	niger Prov., Crabro	198	Nomadopsis Ashm.	229	nigerrimus (Scop.), Anoplius	183	Nomamyrmex Borg.	108	nigra Timb. & Mich., Proteriadess	240	Nomia Latr.	233	nigrans Krom., Solierella	187	nortoni Cress., Nomia	233	nigratorius F., Ichneumon	52	nortonii Buckl., Formica	161	nigrella Mich., Proteriadess[s]	239	Nothocrabro Pate	198	nigrella Timb., Perdita	225	Nothosmia Ashm.	244	nigrellus (Bks.), Auplopus	174	Notiochares Bks.	181	nigrescens (Cress.), Neivamyrmex	109	NOTOCYPHINI	177	nigrescens Evans, Dissomphalus	98	Notocyphus Sm.	177	nigrescens Martin, Urosigalphus	22	Notogonius How.	188	nigrescens Whlr., Pogonomyrmex[v]	114	Notoxylocopa Hurd	259	nigricans Cam., Acanthochalcis	83	nova-anglae Buckl., Formica	161	nigricans Tow., Proctoness	171	novae-anglae Vier., Perdita	226	nigriciauda (Vier.), Agathisia	25	novaeboracensis Buckl., Myrmica	127, 139	nigriciaudus (Fri.), Bombus[v]	260	novaeboracensis (Fitch), Camponotus	142	nigricreps Ashm., Apteroelaps	74	novifasciatus (Grlt.), Lymaenon	63	nigricreps Ashm., Prostanteris	93	Novomessor Emery	119	nigricollis Timb., Perdita	225	nubila (LaBerge), Svastra[s]	255	nigricornis F., Sirex	16	nubilipennis (Nort.), Rhadinoceraea	15	nigricornis Prov., Pteromalus	84	nuda Robt., Andrena	215	nigricorpus Mitch., Sphecodes	232	nuda Tow., Pimpla	38	nigricoxa (Prov.), Agathis	26	nudus Robt., Colletes	208	nigriculus Wlkl., Ichneumon	52	nulbilineatus (!) Hopk., Hippocephalus	68	nigridens Wesm., Phaenogenes	48	nulla LaBerge, Melissodes[s]	250	nigridorsis Vier., Macrocentrus	21	nuperus Cress., Bracon	34	nigrifacies Timb., Perdita	225	Nylanderia Emery	146	nigrifemora Ashm., Sympiesis	64	Nysson Latr.	192	nigrifrons Cress., Osmia	243	NYSSONINAE	192	nigrifrons (Prov.), Microbembex	196	Nyzeophilus Foerst.	47	nigrifrons Titus, Colletes	208			nigrigena Mich., Osmia[s]	243			nigrior Mich., Anthocopa	240	oahuensis Ashm., Idechthis	59	nigrior Tow., Dipogon[s]	172	obductus Fox, Tachytes	188	nigripennis Prov., Anomalon	62	oblata Weld, Callirhytis	88			obliqua (Say), Melissodes	251								
Neoponera Emery	111	nigripes Sm., Melissodes	250	neorufibarbis Emery, Formica[s]	157	nigripes (Vier.), Campoplex	59	Neotiphia Mall.	101	nigrisoma Nort., Taxonus	14	neotropicalis (Cam.), Sericopompilus	181	nigristigma Prov., Emphytus	16	Neotryptes Robt.	235	nigriteleus Sm., Aphidius	18	NEOXORIDINI	38	nigrithorax Mues., Crassomicrodus	25	Neoxylocopa Mich.	259	nigritus How., Aphelinus	65	nephelotus Lvl. & Ckll., Sphecodes	231	nigritus (Prov.), Microctonus	20	nephopteris (Pack.), Apanteles	29	nigriiventris Ashm., Monoblastus	55	Nepiera Foerst.	60	nigriiventris Mues., Oncophanes	35	nepticulae (Roh.), Gnaptodon	32	nigrobarbata Ckll., Osmia	243	neptis Burks, Chalcis	83	nigrocaerulea Timb., Perdita	225	nesiotis Timb., Andrena[s]	213	nigrocephalus (Davis), Eudiaborus	42	Nesomyrmex Whlr.	130	nigromaculata Timb., Nomadopsis	229	Netelia Gray	40	nigropilosella Cam., Plesia	107	Neuroterus Htg.	86	nigropyga Shen., Atanycolus	33	Neurotoma Knw.	8	nigroscutum Midd., Neodiprion	10	neutralis Cress., Ichneumon	52	nigrosignata Ckll., Melissodes	252	nevadense (Cwfd.), Lasioglossum	230	nigrosternum (Morr.), Cremnops	25	nevadensis Ashm., Bracon	34	nigrosus Ashm., Kleidotoma	88	nevadensis (Cam.), Symmorphus[s]	165	nigrotrochanterica (Vier.), Agathis	26	nevadensis Ckll., Perdita[s]	225	nigrum Robt., Oxybelus	202	nevadensis Cole, Lasius	149	nigrovarius Prov., Ophion	62	nevadensis (Cress.), Anthedonia	249	nigroviridis Timb., Perdita	225	nevadensis (Cress.), Lycogaster[s]	100	Nitela Latr.	187	nevadensis Cress., Nomia[s]	233	Nitelopterus Ashm.	187	nevadensis Kief., Aclista	92	nitens Emery, Leptothorax[s]	132	nevadensis (Kief.), Phaenoserphus	89	nitens Timb., Perdita	226	nevadensis Swenk, Colletes[s]	209	nitens Zadd., Dolerus	11	nevadensis Timb. & Mich., Proteriadess[s]	239	nitescens Timb., Colletes	208	nevadensis Whlr., Formica	157	nitida F., Spheg	170	nevadensis Whlr., Leptothorax[s]	132	nitidicaudus Ckll., Colletes	207	Nictula Burks	54	nitidicornis Ckll., Andrena	215	nidulans Thoms., Pteromalus	77	nitidiventris Emery, Camponotus[v]	145	nifoata Ckll., Osmia	243	nitidiventris Emery, Formica[s]	153	nifoata Ckll., Osmia	244	nitidiventris (Fox), Nothocrabro	198	nigellus Emery, Iridomyrmex[s]	140	nitidivitta Mich., Anthocopa	241	niger (Ashm.), Atractodes	45	nitidus Gah., Ephedrus	18	niger (Ashm.), Phygadeuon	45	nitratu Cook, Pogonomyrmex[s]	114	niger (Ashm.), Thyasium	69	niveltarsis (Cress.), Meteorus	20	niger (Cress.), Aporus	179	nocticola Brad., Brachycistis	101	niger Fen., Chalcogonatopus	100	noctilio F., Sirex	16	niger (L.), Lasius	148	nocturna Mick., Dasymutilla	104	niger Mitch., Acricornus[s]	47	nogalensis Byars, Trachymyrmex	137	niger Perg., Dorymyrmex[v]	141	Nomada Scop.	246	niger Prov., Crabro	198	Nomadopsis Ashm.	229	nigerrimus (Scop.), Anoplius	183	Nomamyrmex Borg.	108	nigra Timb. & Mich., Proteriadess	240	Nomia Latr.	233	nigrans Krom., Solierella	187	nortoni Cress., Nomia	233	nigratorius F., Ichneumon	52	nortonii Buckl., Formica	161	nigrella Mich., Proteriadess[s]	239	Nothocrabro Pate	198	nigrella Timb., Perdita	225	Nothosmia Ashm.	244	nigrellus (Bks.), Auplopus	174	Notiochares Bks.	181	nigrescens (Cress.), Neivamyrmex	109	NOTOCYPHINI	177	nigrescens Evans, Dissomphalus	98	Notocyphus Sm.	177	nigrescens Martin, Urosigalphus	22	Notogonius How.	188	nigrescens Whlr., Pogonomyrmex[v]	114	Notoxylocopa Hurd	259	nigricans Cam., Acanthochalcis	83	nova-anglae Buckl., Formica	161	nigricans Tow., Proctoness	171	novae-anglae Vier., Perdita	226	nigriciauda (Vier.), Agathisia	25	novaeboracensis Buckl., Myrmica	127, 139	nigriciaudus (Fri.), Bombus[v]	260	novaeboracensis (Fitch), Camponotus	142	nigricreps Ashm., Apteroelaps	74	novifasciatus (Grlt.), Lymaenon	63	nigricreps Ashm., Prostanteris	93	Novomessor Emery	119	nigricollis Timb., Perdita	225	nubila (LaBerge), Svastra[s]	255	nigricornis F., Sirex	16	nubilipennis (Nort.), Rhadinoceraea	15	nigricornis Prov., Pteromalus	84	nuda Robt., Andrena	215	nigricorpus Mitch., Sphecodes	232	nuda Tow., Pimpla	38	nigricoxa (Prov.), Agathis	26	nudus Robt., Colletes	208	nigriculus Wlkl., Ichneumon	52	nulbilineatus (!) Hopk., Hippocephalus	68	nigridens Wesm., Phaenogenes	48	nulla LaBerge, Melissodes[s]	250	nigridorsis Vier., Macrocentrus	21	nuperus Cress., Bracon	34	nigrifacies Timb., Perdita	225	Nylanderia Emery	146	nigrifemora Ashm., Sympiesis	64	Nysson Latr.	192	nigrifrons Cress., Osmia	243	NYSSONINAE	192	nigrifrons (Prov.), Microbembex	196	Nyzeophilus Foerst.	47	nigrifrons Titus, Colletes	208			nigrigena Mich., Osmia[s]	243			nigrior Mich., Anthocopa	240	oahuensis Ashm., Idechthis	59	nigrior Tow., Dipogon[s]	172	obductus Fox, Tachytes	188	nigripennis Prov., Anomalon	62	oblata Weld, Callirhytis	88			obliqua (Say), Melissodes	251												
neorufibarbis Emery, Formica[s]	157	nigripes (Vier.), Campoplex	59	Neotiphia Mall.	101	nigrisoma Nort., Taxonus	14	neotropicalis (Cam.), Sericopompilus	181	nigristigma Prov., Emphytus	16	Neotryptes Robt.	235	nigriteleus Sm., Aphidius	18	NEOXORIDINI	38	nigrithorax Mues., Crassomicrodus	25	Neoxylocopa Mich.	259	nigritus How., Aphelinus	65	nephelotus Lvl. & Ckll., Sphecodes	231	nigritus (Prov.), Microctonus	20	nephopteris (Pack.), Apanteles	29	nigriiventris Ashm., Monoblastus	55	Nepiera Foerst.	60	nigriiventris Mues., Oncophanes	35	nepticulae (Roh.), Gnaptodon	32	nigrobarbata Ckll., Osmia	243	neptis Burks, Chalcis	83	nigrocaerulea Timb., Perdita	225	nesiotis Timb., Andrena[s]	213	nigrocephalus (Davis), Eudiaborus	42	Nesomyrmex Whlr.	130	nigromaculata Timb., Nomadopsis	229	Netelia Gray	40	nigropilosella Cam., Plesia	107	Neuroterus Htg.	86	nigropyga Shen., Atanycolus	33	Neurotoma Knw.	8	nigroscutum Midd., Neodiprion	10	neutralis Cress., Ichneumon	52	nigrosignata Ckll., Melissodes	252	nevadense (Cwfd.), Lasioglossum	230	nigrosternum (Morr.), Cremnops	25	nevadensis Ashm., Bracon	34	nigrosus Ashm., Kleidotoma	88	nevadensis (Cam.), Symmorphus[s]	165	nigrotrochanterica (Vier.), Agathis	26	nevadensis Ckll., Perdita[s]	225	nigrum Robt., Oxybelus	202	nevadensis Cole, Lasius	149	nigrovarius Prov., Ophion	62	nevadensis (Cress.), Anthedonia	249	nigroviridis Timb., Perdita	225	nevadensis (Cress.), Lycogaster[s]	100	Nitela Latr.	187	nevadensis Cress., Nomia[s]	233	Nitelopterus Ashm.	187	nevadensis Kief., Aclista	92	nitens Emery, Leptothorax[s]	132	nevadensis (Kief.), Phaenoserphus	89	nitens Timb., Perdita	226	nevadensis Swenk, Colletes[s]	209	nitens Zadd., Dolerus	11	nevadensis Timb. & Mich., Proteriadess[s]	239	nitescens Timb., Colletes	208	nevadensis Whlr., Formica	157	nitida F., Spheg	170	nevadensis Whlr., Leptothorax[s]	132	nitidicaudus Ckll., Colletes	207	Nictula Burks	54	nitidicornis Ckll., Andrena	215	nidulans Thoms., Pteromalus	77	nitidiventris Emery, Camponotus[v]	145	nifoata Ckll., Osmia	243	nitidiventris Emery, Formica[s]	153	nifoata Ckll., Osmia	244	nitidiventris (Fox), Nothocrabro	198	nigellus Emery, Iridomyrmex[s]	140	nitidivitta Mich., Anthocopa	241	niger (Ashm.), Atractodes	45	nitidus Gah., Ephedrus	18	niger (Ashm.), Phygadeuon	45	nitratu Cook, Pogonomyrmex[s]	114	niger (Ashm.), Thyasium	69	niveltarsis (Cress.), Meteorus	20	niger (Cress.), Aporus	179	nocticola Brad., Brachycistis	101	niger Fen., Chalcogonatopus	100	noctilio F., Sirex	16	niger (L.), Lasius	148	nocturna Mick., Dasymutilla	104	niger Mitch., Acricornus[s]	47	nogalensis Byars, Trachymyrmex	137	niger Perg., Dorymyrmex[v]	141	Nomada Scop.	246	niger Prov., Crabro	198	Nomadopsis Ashm.	229	nigerrimus (Scop.), Anoplius	183	Nomamyrmex Borg.	108	nigra Timb. & Mich., Proteriadess	240	Nomia Latr.	233	nigrans Krom., Solierella	187	nortoni Cress., Nomia	233	nigratorius F., Ichneumon	52	nortonii Buckl., Formica	161	nigrella Mich., Proteriadess[s]	239	Nothocrabro Pate	198	nigrella Timb., Perdita	225	Nothosmia Ashm.	244	nigrellus (Bks.), Auplopus	174	Notiochares Bks.	181	nigrescens (Cress.), Neivamyrmex	109	NOTOCYPHINI	177	nigrescens Evans, Dissomphalus	98	Notocyphus Sm.	177	nigrescens Martin, Urosigalphus	22	Notogonius How.	188	nigrescens Whlr., Pogonomyrmex[v]	114	Notoxylocopa Hurd	259	nigricans Cam., Acanthochalcis	83	nova-anglae Buckl., Formica	161	nigricans Tow., Proctoness	171	novae-anglae Vier., Perdita	226	nigriciauda (Vier.), Agathisia	25	novaeboracensis Buckl., Myrmica	127, 139	nigriciaudus (Fri.), Bombus[v]	260	novaeboracensis (Fitch), Camponotus	142	nigricreps Ashm., Apteroelaps	74	novifasciatus (Grlt.), Lymaenon	63	nigricreps Ashm., Prostanteris	93	Novomessor Emery	119	nigricollis Timb., Perdita	225	nubila (LaBerge), Svastra[s]	255	nigricornis F., Sirex	16	nubilipennis (Nort.), Rhadinoceraea	15	nigricornis Prov., Pteromalus	84	nuda Robt., Andrena	215	nigricorpus Mitch., Sphecodes	232	nuda Tow., Pimpla	38	nigricoxa (Prov.), Agathis	26	nudus Robt., Colletes	208	nigriculus Wlkl., Ichneumon	52	nulbilineatus (!) Hopk., Hippocephalus	68	nigridens Wesm., Phaenogenes	48	nulla LaBerge, Melissodes[s]	250	nigridorsis Vier., Macrocentrus	21	nuperus Cress., Bracon	34	nigrifacies Timb., Perdita	225	Nylanderia Emery	146	nigrifemora Ashm., Sympiesis	64	Nysson Latr.	192	nigrifrons Cress., Osmia	243	NYSSONINAE	192	nigrifrons (Prov.), Microbembex	196	Nyzeophilus Foerst.	47	nigrifrons Titus, Colletes	208			nigrigena Mich., Osmia[s]	243			nigrior Mich., Anthocopa	240	oahuensis Ashm., Idechthis	59	nigrior Tow., Dipogon[s]	172	obductus Fox, Tachytes	188	nigripennis Prov., Anomalon	62	oblata Weld, Callirhytis	88			obliqua (Say), Melissodes	251																
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neotropicalis (Cam.), Sericopompilus	181	nigristigma Prov., Emphytus	16	Neotryptes Robt.	235	nigriteleus Sm., Aphidius	18	NEOXORIDINI	38	nigrithorax Mues., Crassomicrodus	25	Neoxylocopa Mich.	259	nigritus How., Aphelinus	65	nephelotus Lvl. & Ckll., Sphecodes	231	nigritus (Prov.), Microctonus	20	nephopteris (Pack.), Apanteles	29	nigriiventris Ashm., Monoblastus	55	Nepiera Foerst.	60	nigriiventris Mues., Oncophanes	35	nepticulae (Roh.), Gnaptodon	32	nigrobarbata Ckll., Osmia	243	neptis Burks, Chalcis	83	nigrocaerulea Timb., Perdita	225	nesiotis Timb., Andrena[s]	213	nigrocephalus (Davis), Eudiaborus	42	Nesomyrmex Whlr.	130	nigromaculata Timb., Nomadopsis	229	Netelia Gray	40	nigropilosella Cam., Plesia	107	Neuroterus Htg.	86	nigropyga Shen., Atanycolus	33	Neurotoma Knw.	8	nigroscutum Midd., Neodiprion	10	neutralis Cress., Ichneumon	52	nigrosignata Ckll., Melissodes	252	nevadense (Cwfd.), Lasioglossum	230	nigrosternum (Morr.), Cremnops	25	nevadensis Ashm., Bracon	34	nigrosus Ashm., Kleidotoma	88	nevadensis (Cam.), Symmorphus[s]	165	nigrotrochanterica (Vier.), Agathis	26	nevadensis Ckll., Perdita[s]	225	nigrum Robt., Oxybelus	202	nevadensis Cole, Lasius	149	nigrovarius Prov., Ophion	62	nevadensis (Cress.), Anthedonia	249	nigroviridis Timb., Perdita	225	nevadensis (Cress.), Lycogaster[s]	100	Nitela Latr.	187	nevadensis Cress., Nomia[s]	233	Nitelopterus Ashm.	187	nevadensis Kief., Aclista	92	nitens Emery, Leptothorax[s]	132	nevadensis (Kief.), Phaenoserphus	89	nitens Timb., Perdita	226	nevadensis Swenk, Colletes[s]	209	nitens Zadd., Dolerus	11	nevadensis Timb. & Mich., Proteriadess[s]	239	nitescens Timb., Colletes	208	nevadensis Whlr., Formica	157	nitida F., Spheg	170	nevadensis Whlr., Leptothorax[s]	132	nitidicaudus Ckll., Colletes	207	Nictula Burks	54	nitidicornis Ckll., Andrena	215	nidulans Thoms., Pteromalus	77	nitidiventris Emery, Camponotus[v]	145	nifoata Ckll., Osmia	243	nitidiventris Emery, Formica[s]	153	nifoata Ckll., Osmia	244	nitidiventris (Fox), Nothocrabro	198	nigellus Emery, Iridomyrmex[s]	140	nitidivitta Mich., Anthocopa	241	niger (Ashm.), Atractodes	45	nitidus Gah., Ephedrus	18	niger (Ashm.), Phygadeuon	45	nitratu Cook, Pogonomyrmex[s]	114	niger (Ashm.), Thyasium	69	niveltarsis (Cress.), Meteorus	20	niger (Cress.), Aporus	179	nocticola Brad., Brachycistis	101	niger Fen., Chalcogonatopus	100	noctilio F., Sirex	16	niger (L.), Lasius	148	nocturna Mick., Dasymutilla	104	niger Mitch., Acricornus[s]	47	nogalensis Byars, Trachymyrmex	137	niger Perg., Dorymyrmex[v]	141	Nomada Scop.	246	niger Prov., Crabro	198	Nomadopsis Ashm.	229	nigerrimus (Scop.), Anoplius	183	Nomamyrmex Borg.	108	nigra Timb. & Mich., Proteriadess	240	Nomia Latr.	233	nigrans Krom., Solierella	187	nortoni Cress., Nomia	233	nigratorius F., Ichneumon	52	nortonii Buckl., Formica	161	nigrella Mich., Proteriadess[s]	239	Nothocrabro Pate	198	nigrella Timb., Perdita	225	Nothosmia Ashm.	244	nigrellus (Bks.), Auplopus	174	Notiochares Bks.	181	nigrescens (Cress.), Neivamyrmex	109	NOTOCYPHINI	177	nigrescens Evans, Dissomphalus	98	Notocyphus Sm.	177	nigrescens Martin, Urosigalphus	22	Notogonius How.	188	nigrescens Whlr., Pogonomyrmex[v]	114	Notoxylocopa Hurd	259	nigricans Cam., Acanthochalcis	83	nova-anglae Buckl., Formica	161	nigricans Tow., Proctoness	171	novae-anglae Vier., Perdita	226	nigriciauda (Vier.), Agathisia	25	novaeboracensis Buckl., Myrmica	127, 139	nigriciaudus (Fri.), Bombus[v]	260	novaeboracensis (Fitch), Camponotus	142	nigricreps Ashm., Apteroelaps	74	novifasciatus (Grlt.), Lymaenon	63	nigricreps Ashm., Prostanteris	93	Novomessor Emery	119	nigricollis Timb., Perdita	225	nubila (LaBerge), Svastra[s]	255	nigricornis F., Sirex	16	nubilipennis (Nort.), Rhadinoceraea	15	nigricornis Prov., Pteromalus	84	nuda Robt., Andrena	215	nigricorpus Mitch., Sphecodes	232	nuda Tow., Pimpla	38	nigricoxa (Prov.), Agathis	26	nudus Robt., Colletes	208	nigriculus Wlkl., Ichneumon	52	nulbilineatus (!) Hopk., Hippocephalus	68	nigridens Wesm., Phaenogenes	48	nulla LaBerge, Melissodes[s]	250	nigridorsis Vier., Macrocentrus	21	nuperus Cress., Bracon	34	nigrifacies Timb., Perdita	225	Nylanderia Emery	146	nigrifemora Ashm., Sympiesis	64	Nysson Latr.	192	nigrifrons Cress., Osmia	243	NYSSONINAE	192	nigrifrons (Prov.), Microbembex	196	Nyzeophilus Foerst.	47	nigrifrons Titus, Colletes	208			nigrigena Mich., Osmia[s]	243			nigrior Mich., Anthocopa	240	oahuensis Ashm., Idechthis	59	nigrior Tow., Dipogon[s]	172	obductus Fox, Tachytes	188	nigripennis Prov., Anomalon	62	oblata Weld, Callirhytis	88			obliqua (Say), Melissodes	251																								
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NEOXORIDINI	38	nigrithorax Mues., Crassomicrodus	25	Neoxylocopa Mich.	259	nigritus How., Aphelinus	65	nephelotus Lvl. & Ckll., Sphecodes	231	nigritus (Prov.), Microctonus	20	nephopteris (Pack.), Apanteles	29	nigriiventris Ashm., Monoblastus	55	Nepiera Foerst.	60	nigriiventris Mues., Oncophanes	35	nepticulae (Roh.), Gnaptodon	32	nigrobarbata Ckll., Osmia	243	neptis Burks, Chalcis	83	nigrocaerulea Timb., Perdita	225	nesiotis Timb., Andrena[s]	213	nigrocephalus (Davis), Eudiaborus	42	Nesomyrmex Whlr.	130	nigromaculata Timb., Nomadopsis	229	Netelia Gray	40	nigropilosella Cam., Plesia	107	Neuroterus Htg.	86	nigropyga Shen., Atanycolus	33	Neurotoma Knw.	8	nigroscutum Midd., Neodiprion	10	neutralis Cress., Ichneumon	52	nigrosignata Ckll., Melissodes	252	nevadense (Cwfd.), Lasioglossum	230	nigrosternum (Morr.), Cremnops	25	nevadensis Ashm., Bracon	34	nigrosus Ashm., Kleidotoma	88	nevadensis (Cam.), Symmorphus[s]	165	nigrotrochanterica (Vier.), Agathis	26	nevadensis Ckll., Perdita[s]	225	nigrum Robt., Oxybelus	202	nevadensis Cole, Lasius	149	nigrovarius Prov., Ophion	62	nevadensis (Cress.), Anthedonia	249	nigroviridis Timb., Perdita	225	nevadensis (Cress.), Lycogaster[s]	100	Nitela Latr.	187	nevadensis Cress., Nomia[s]	233	Nitelopterus Ashm.	187	nevadensis Kief., Aclista	92	nitens Emery, Leptothorax[s]	132	nevadensis (Kief.), Phaenoserphus	89	nitens Timb., Perdita	226	nevadensis Swenk, Colletes[s]	209	nitens Zadd., Dolerus	11	nevadensis Timb. & Mich., Proteriadess[s]	239	nitescens Timb., Colletes	208	nevadensis Whlr., Formica	157	nitida F., Spheg	170	nevadensis Whlr., Leptothorax[s]	132	nitidicaudus Ckll., Colletes	207	Nictula Burks	54	nitidicornis Ckll., Andrena	215	nidulans Thoms., Pteromalus	77	nitidiventris Emery, Camponotus[v]	145	nifoata Ckll., Osmia	243	nitidiventris Emery, Formica[s]	153	nifoata Ckll., Osmia	244	nitidiventris (Fox), Nothocrabro	198	nigellus Emery, Iridomyrmex[s]	140	nitidivitta Mich., Anthocopa	241	niger (Ashm.), Atractodes	45	nitidus Gah., Ephedrus	18	niger (Ashm.), Phygadeuon	45	nitratu Cook, Pogonomyrmex[s]	114	niger (Ashm.), Thyasium	69	niveltarsis (Cress.), Meteorus	20	niger (Cress.), Aporus	179	nocticola Brad., Brachycistis	101	niger Fen., Chalcogonatopus	100	noctilio F., Sirex	16	niger (L.), Lasius	148	nocturna Mick., Dasymutilla	104	niger Mitch., Acricornus[s]	47	nogalensis Byars, Trachymyrmex	137	niger Perg., Dorymyrmex[v]	141	Nomada Scop.	246	niger Prov., Crabro	198	Nomadopsis Ashm.	229	nigerrimus (Scop.), Anoplius	183	Nomamyrmex Borg.	108	nigra Timb. & Mich., Proteriadess	240	Nomia Latr.	233	nigrans Krom., Solierella	187	nortoni Cress., Nomia	233	nigratorius F., Ichneumon	52	nortonii Buckl., Formica	161	nigrella Mich., Proteriadess[s]	239	Nothocrabro Pate	198	nigrella Timb., Perdita	225	Nothosmia Ashm.	244	nigrellus (Bks.), Auplopus	174	Notiochares Bks.	181	nigrescens (Cress.), Neivamyrmex	109	NOTOCYPHINI	177	nigrescens Evans, Dissomphalus	98	Notocyphus Sm.	177	nigrescens Martin, Urosigalphus	22	Notogonius How.	188	nigrescens Whlr., Pogonomyrmex[v]	114	Notoxylocopa Hurd	259	nigricans Cam., Acanthochalcis	83	nova-anglae Buckl., Formica	161	nigricans Tow., Proctoness	171	novae-anglae Vier., Perdita	226	nigriciauda (Vier.), Agathisia	25	novaeboracensis Buckl., Myrmica	127, 139	nigriciaudus (Fri.), Bombus[v]	260	novaeboracensis (Fitch), Camponotus	142	nigricreps Ashm., Apteroelaps	74	novifasciatus (Grlt.), Lymaenon	63	nigricreps Ashm., Prostanteris	93	Novomessor Emery	119	nigricollis Timb., Perdita	225	nubila (LaBerge), Svastra[s]	255	nigricornis F., Sirex	16	nubilipennis (Nort.), Rhadinoceraea	15	nigricornis Prov., Pteromalus	84	nuda Robt., Andrena	215	nigricorpus Mitch., Sphecodes	232	nuda Tow., Pimpla	38	nigricoxa (Prov.), Agathis	26	nudus Robt., Colletes	208	nigriculus Wlkl., Ichneumon	52	nulbilineatus (!) Hopk., Hippocephalus	68	nigridens Wesm., Phaenogenes	48	nulla LaBerge, Melissodes[s]	250	nigridorsis Vier., Macrocentrus	21	nuperus Cress., Bracon	34	nigrifacies Timb., Perdita	225	Nylanderia Emery	146	nigrifemora Ashm., Sympiesis	64	Nysson Latr.	192	nigrifrons Cress., Osmia	243	NYSSONINAE	192	nigrifrons (Prov.), Microbembex	196	Nyzeophilus Foerst.	47	nigrifrons Titus, Colletes	208			nigrigena Mich., Osmia[s]	243			nigrior Mich., Anthocopa	240	oahuensis Ashm., Idechthis	59	nigrior Tow., Dipogon[s]	172	obductus Fox, Tachytes	188	nigripennis Prov., Anomalon	62	oblata Weld, Callirhytis	88			obliqua (Say), Melissodes	251																																
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nephelotus Lvl. & Ckll., Sphecodes	231	nigritus (Prov.), Microctonus	20	nephopteris (Pack.), Apanteles	29	nigriiventris Ashm., Monoblastus	55	Nepiera Foerst.	60	nigriiventris Mues., Oncophanes	35	nepticulae (Roh.), Gnaptodon	32	nigrobarbata Ckll., Osmia	243	neptis Burks, Chalcis	83	nigrocaerulea Timb., Perdita	225	nesiotis Timb., Andrena[s]	213	nigrocephalus (Davis), Eudiaborus	42	Nesomyrmex Whlr.	130	nigromaculata Timb., Nomadopsis	229	Netelia Gray	40	nigropilosella Cam., Plesia	107	Neuroterus Htg.	86	nigropyga Shen., Atanycolus	33	Neurotoma Knw.	8	nigroscutum Midd., Neodiprion	10	neutralis Cress., Ichneumon	52	nigrosignata Ckll., Melissodes	252	nevadense (Cwfd.), Lasioglossum	230	nigrosternum (Morr.), Cremnops	25	nevadensis Ashm., Bracon	34	nigrosus Ashm., Kleidotoma	88	nevadensis (Cam.), Symmorphus[s]	165	nigrotrochanterica (Vier.), Agathis	26	nevadensis Ckll., Perdita[s]	225	nigrum Robt., Oxybelus	202	nevadensis Cole, Lasius	149	nigrovarius Prov., Ophion	62	nevadensis (Cress.), Anthedonia	249	nigroviridis Timb., Perdita	225	nevadensis (Cress.), Lycogaster[s]	100	Nitela Latr.	187	nevadensis Cress., Nomia[s]	233	Nitelopterus Ashm.	187	nevadensis Kief., Aclista	92	nitens Emery, Leptothorax[s]	132	nevadensis (Kief.), Phaenoserphus	89	nitens Timb., Perdita	226	nevadensis Swenk, Colletes[s]	209	nitens Zadd., Dolerus	11	nevadensis Timb. & Mich., Proteriadess[s]	239	nitescens Timb., Colletes	208	nevadensis Whlr., Formica	157	nitida F., Spheg	170	nevadensis Whlr., Leptothorax[s]	132	nitidicaudus Ckll., Colletes	207	Nictula Burks	54	nitidicornis Ckll., Andrena	215	nidulans Thoms., Pteromalus	77	nitidiventris Emery, Camponotus[v]	145	nifoata Ckll., Osmia	243	nitidiventris Emery, Formica[s]	153	nifoata Ckll., Osmia	244	nitidiventris (Fox), Nothocrabro	198	nigellus Emery, Iridomyrmex[s]	140	nitidivitta Mich., Anthocopa	241	niger (Ashm.), Atractodes	45	nitidus Gah., Ephedrus	18	niger (Ashm.), Phygadeuon	45	nitratu Cook, Pogonomyrmex[s]	114	niger (Ashm.), Thyasium	69	niveltarsis (Cress.), Meteorus	20	niger (Cress.), Aporus	179	nocticola Brad., Brachycistis	101	niger Fen., Chalcogonatopus	100	noctilio F., Sirex	16	niger (L.), Lasius	148	nocturna Mick., Dasymutilla	104	niger Mitch., Acricornus[s]	47	nogalensis Byars, Trachymyrmex	137	niger Perg., Dorymyrmex[v]	141	Nomada Scop.	246	niger Prov., Crabro	198	Nomadopsis Ashm.	229	nigerrimus (Scop.), Anoplius	183	Nomamyrmex Borg.	108	nigra Timb. & Mich., Proteriadess	240	Nomia Latr.	233	nigrans Krom., Solierella	187	nortoni Cress., Nomia	233	nigratorius F., Ichneumon	52	nortonii Buckl., Formica	161	nigrella Mich., Proteriadess[s]	239	Nothocrabro Pate	198	nigrella Timb., Perdita	225	Nothosmia Ashm.	244	nigrellus (Bks.), Auplopus	174	Notiochares Bks.	181	nigrescens (Cress.), Neivamyrmex	109	NOTOCYPHINI	177	nigrescens Evans, Dissomphalus	98	Notocyphus Sm.	177	nigrescens Martin, Urosigalphus	22	Notogonius How.	188	nigrescens Whlr., Pogonomyrmex[v]	114	Notoxylocopa Hurd	259	nigricans Cam., Acanthochalcis	83	nova-anglae Buckl., Formica	161	nigricans Tow., Proctoness	171	novae-anglae Vier., Perdita	226	nigriciauda (Vier.), Agathisia	25	novaeboracensis Buckl., Myrmica	127, 139	nigriciaudus (Fri.), Bombus[v]	260	novaeboracensis (Fitch), Camponotus	142	nigricreps Ashm., Apteroelaps	74	novifasciatus (Grlt.), Lymaenon	63	nigricreps Ashm., Prostanteris	93	Novomessor Emery	119	nigricollis Timb., Perdita	225	nubila (LaBerge), Svastra[s]	255	nigricornis F., Sirex	16	nubilipennis (Nort.), Rhadinoceraea	15	nigricornis Prov., Pteromalus	84	nuda Robt., Andrena	215	nigricorpus Mitch., Sphecodes	232	nuda Tow., Pimpla	38	nigricoxa (Prov.), Agathis	26	nudus Robt., Colletes	208	nigriculus Wlkl., Ichneumon	52	nulbilineatus (!) Hopk., Hippocephalus	68	nigridens Wesm., Phaenogenes	48	nulla LaBerge, Melissodes[s]	250	nigridorsis Vier., Macrocentrus	21	nuperus Cress., Bracon	34	nigrifacies Timb., Perdita	225	Nylanderia Emery	146	nigrifemora Ashm., Sympiesis	64	Nysson Latr.	192	nigrifrons Cress., Osmia	243	NYSSONINAE	192	nigrifrons (Prov.), Microbembex	196	Nyzeophilus Foerst.	47	nigrifrons Titus, Colletes	208			nigrigena Mich., Osmia[s]	243			nigrior Mich., Anthocopa	240	oahuensis Ashm., Idechthis	59	nigrior Tow., Dipogon[s]	172	obductus Fox, Tachytes	188	nigripennis Prov., Anomalon	62	oblata Weld, Callirhytis	88			obliqua (Say), Melissodes	251																																								
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Nepiera Foerst.	60	nigriiventris Mues., Oncophanes	35	nepticulae (Roh.), Gnaptodon	32	nigrobarbata Ckll., Osmia	243	neptis Burks, Chalcis	83	nigrocaerulea Timb., Perdita	225	nesiotis Timb., Andrena[s]	213	nigrocephalus (Davis), Eudiaborus	42	Nesomyrmex Whlr.	130	nigromaculata Timb., Nomadopsis	229	Netelia Gray	40	nigropilosella Cam., Plesia	107	Neuroterus Htg.	86	nigropyga Shen., Atanycolus	33	Neurotoma Knw.	8	nigroscutum Midd., Neodiprion	10	neutralis Cress., Ichneumon	52	nigrosignata Ckll., Melissodes	252	nevadense (Cwfd.), Lasioglossum	230	nigrosternum (Morr.), Cremnops	25	nevadensis Ashm., Bracon	34	nigrosus Ashm., Kleidotoma	88	nevadensis (Cam.), Symmorphus[s]	165	nigrotrochanterica (Vier.), Agathis	26	nevadensis Ckll., Perdita[s]	225	nigrum Robt., Oxybelus	202	nevadensis Cole, Lasius	149	nigrovarius Prov., Ophion	62	nevadensis (Cress.), Anthedonia	249	nigroviridis Timb., Perdita	225	nevadensis (Cress.), Lycogaster[s]	100	Nitela Latr.	187	nevadensis Cress., Nomia[s]	233	Nitelopterus Ashm.	187	nevadensis Kief., Aclista	92	nitens Emery, Leptothorax[s]	132	nevadensis (Kief.), Phaenoserphus	89	nitens Timb., Perdita	226	nevadensis Swenk, Colletes[s]	209	nitens Zadd., Dolerus	11	nevadensis Timb. & Mich., Proteriadess[s]	239	nitescens Timb., Colletes	208	nevadensis Whlr., Formica	157	nitida F., Spheg	170	nevadensis Whlr., Leptothorax[s]	132	nitidicaudus Ckll., Colletes	207	Nictula Burks	54	nitidicornis Ckll., Andrena	215	nidulans Thoms., Pteromalus	77	nitidiventris Emery, Camponotus[v]	145	nifoata Ckll., Osmia	243	nitidiventris Emery, Formica[s]	153	nifoata Ckll., Osmia	244	nitidiventris (Fox), Nothocrabro	198	nigellus Emery, Iridomyrmex[s]	140	nitidivitta Mich., Anthocopa	241	niger (Ashm.), Atractodes	45	nitidus Gah., Ephedrus	18	niger (Ashm.), Phygadeuon	45	nitratu Cook, Pogonomyrmex[s]	114	niger (Ashm.), Thyasium	69	niveltarsis (Cress.), Meteorus	20	niger (Cress.), Aporus	179	nocticola Brad., Brachycistis	101	niger Fen., Chalcogonatopus	100	noctilio F., Sirex	16	niger (L.), Lasius	148	nocturna Mick., Dasymutilla	104	niger Mitch., Acricornus[s]	47	nogalensis Byars, Trachymyrmex	137	niger Perg., Dorymyrmex[v]	141	Nomada Scop.	246	niger Prov., Crabro	198	Nomadopsis Ashm.	229	nigerrimus (Scop.), Anoplius	183	Nomamyrmex Borg.	108	nigra Timb. & Mich., Proteriadess	240	Nomia Latr.	233	nigrans Krom., Solierella	187	nortoni Cress., Nomia	233	nigratorius F., Ichneumon	52	nortonii Buckl., Formica	161	nigrella Mich., Proteriadess[s]	239	Nothocrabro Pate	198	nigrella Timb., Perdita	225	Nothosmia Ashm.	244	nigrellus (Bks.), Auplopus	174	Notiochares Bks.	181	nigrescens (Cress.), Neivamyrmex	109	NOTOCYPHINI	177	nigrescens Evans, Dissomphalus	98	Notocyphus Sm.	177	nigrescens Martin, Urosigalphus	22	Notogonius How.	188	nigrescens Whlr., Pogonomyrmex[v]	114	Notoxylocopa Hurd	259	nigricans Cam., Acanthochalcis	83	nova-anglae Buckl., Formica	161	nigricans Tow., Proctoness	171	novae-anglae Vier., Perdita	226	nigriciauda (Vier.), Agathisia	25	novaeboracensis Buckl., Myrmica	127, 139	nigriciaudus (Fri.), Bombus[v]	260	novaeboracensis (Fitch), Camponotus	142	nigricreps Ashm., Apteroelaps	74	novifasciatus (Grlt.), Lymaenon	63	nigricreps Ashm., Prostanteris	93	Novomessor Emery	119	nigricollis Timb., Perdita	225	nubila (LaBerge), Svastra[s]	255	nigricornis F., Sirex	16	nubilipennis (Nort.), Rhadinoceraea	15	nigricornis Prov., Pteromalus	84	nuda Robt., Andrena	215	nigricorpus Mitch., Sphecodes	232	nuda Tow., Pimpla	38	nigricoxa (Prov.), Agathis	26	nudus Robt., Colletes	208	nigriculus Wlkl., Ichneumon	52	nulbilineatus (!) Hopk., Hippocephalus	68	nigridens Wesm., Phaenogenes	48	nulla LaBerge, Melissodes[s]	250	nigridorsis Vier., Macrocentrus	21	nuperus Cress., Bracon	34	nigrifacies Timb., Perdita	225	Nylanderia Emery	146	nigrifemora Ashm., Sympiesis	64	Nysson Latr.	192	nigrifrons Cress., Osmia	243	NYSSONINAE	192	nigrifrons (Prov.), Microbembex	196	Nyzeophilus Foerst.	47	nigrifrons Titus, Colletes	208			nigrigena Mich., Osmia[s]	243			nigrior Mich., Anthocopa	240	oahuensis Ashm., Idechthis	59	nigrior Tow., Dipogon[s]	172	obductus Fox, Tachytes	188	nigripennis Prov., Anomalon	62	oblata Weld, Callirhytis	88			obliqua (Say), Melissodes	251																																																
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neptis Burks, Chalcis	83	nigrocaerulea Timb., Perdita	225	nesiotis Timb., Andrena[s]	213	nigrocephalus (Davis), Eudiaborus	42	Nesomyrmex Whlr.	130	nigromaculata Timb., Nomadopsis	229	Netelia Gray	40	nigropilosella Cam., Plesia	107	Neuroterus Htg.	86	nigropyga Shen., Atanycolus	33	Neurotoma Knw.	8	nigroscutum Midd., Neodiprion	10	neutralis Cress., Ichneumon	52	nigrosignata Ckll., Melissodes	252	nevadense (Cwfd.), Lasioglossum	230	nigrosternum (Morr.), Cremnops	25	nevadensis Ashm., Bracon	34	nigrosus Ashm., Kleidotoma	88	nevadensis (Cam.), Symmorphus[s]	165	nigrotrochanterica (Vier.), Agathis	26	nevadensis Ckll., Perdita[s]	225	nigrum Robt., Oxybelus	202	nevadensis Cole, Lasius	149	nigrovarius Prov., Ophion	62	nevadensis (Cress.), Anthedonia	249	nigroviridis Timb., Perdita	225	nevadensis (Cress.), Lycogaster[s]	100	Nitela Latr.	187	nevadensis Cress., Nomia[s]	233	Nitelopterus Ashm.	187	nevadensis Kief., Aclista	92	nitens Emery, Leptothorax[s]	132	nevadensis (Kief.), Phaenoserphus	89	nitens Timb., Perdita	226	nevadensis Swenk, Colletes[s]	209	nitens Zadd., Dolerus	11	nevadensis Timb. & Mich., Proteriadess[s]	239	nitescens Timb., Colletes	208	nevadensis Whlr., Formica	157	nitida F., Spheg	170	nevadensis Whlr., Leptothorax[s]	132	nitidicaudus Ckll., Colletes	207	Nictula Burks	54	nitidicornis Ckll., Andrena	215	nidulans Thoms., Pteromalus	77	nitidiventris Emery, Camponotus[v]	145	nifoata Ckll., Osmia	243	nitidiventris Emery, Formica[s]	153	nifoata Ckll., Osmia	244	nitidiventris (Fox), Nothocrabro	198	nigellus Emery, Iridomyrmex[s]	140	nitidivitta Mich., Anthocopa	241	niger (Ashm.), Atractodes	45	nitidus Gah., Ephedrus	18	niger (Ashm.), Phygadeuon	45	nitratu Cook, Pogonomyrmex[s]	114	niger (Ashm.), Thyasium	69	niveltarsis (Cress.), Meteorus	20	niger (Cress.), Aporus	179	nocticola Brad., Brachycistis	101	niger Fen., Chalcogonatopus	100	noctilio F., Sirex	16	niger (L.), Lasius	148	nocturna Mick., Dasymutilla	104	niger Mitch., Acricornus[s]	47	nogalensis Byars, Trachymyrmex	137	niger Perg., Dorymyrmex[v]	141	Nomada Scop.	246	niger Prov., Crabro	198	Nomadopsis Ashm.	229	nigerrimus (Scop.), Anoplius	183	Nomamyrmex Borg.	108	nigra Timb. & Mich., Proteriadess	240	Nomia Latr.	233	nigrans Krom., Solierella	187	nortoni Cress., Nomia	233	nigratorius F., Ichneumon	52	nortonii Buckl., Formica	161	nigrella Mich., Proteriadess[s]	239	Nothocrabro Pate	198	nigrella Timb., Perdita	225	Nothosmia Ashm.	244	nigrellus (Bks.), Auplopus	174	Notiochares Bks.	181	nigrescens (Cress.), Neivamyrmex	109	NOTOCYPHINI	177	nigrescens Evans, Dissomphalus	98	Notocyphus Sm.	177	nigrescens Martin, Urosigalphus	22	Notogonius How.	188	nigrescens Whlr., Pogonomyrmex[v]	114	Notoxylocopa Hurd	259	nigricans Cam., Acanthochalcis	83	nova-anglae Buckl., Formica	161	nigricans Tow., Proctoness	171	novae-anglae Vier., Perdita	226	nigriciauda (Vier.), Agathisia	25	novaeboracensis Buckl., Myrmica	127, 139	nigriciaudus (Fri.), Bombus[v]	260	novaeboracensis (Fitch), Camponotus	142	nigricreps Ashm., Apteroelaps	74	novifasciatus (Grlt.), Lymaenon	63	nigricreps Ashm., Prostanteris	93	Novomessor Emery	119	nigricollis Timb., Perdita	225	nubila (LaBerge), Svastra[s]	255	nigricornis F., Sirex	16	nubilipennis (Nort.), Rhadinoceraea	15	nigricornis Prov., Pteromalus	84	nuda Robt., Andrena	215	nigricorpus Mitch., Sphecodes	232	nuda Tow., Pimpla	38	nigricoxa (Prov.), Agathis	26	nudus Robt., Colletes	208	nigriculus Wlkl., Ichneumon	52	nulbilineatus (!) Hopk., Hippocephalus	68	nigridens Wesm., Phaenogenes	48	nulla LaBerge, Melissodes[s]	250	nigridorsis Vier., Macrocentrus	21	nuperus Cress., Bracon	34	nigrifacies Timb., Perdita	225	Nylanderia Emery	146	nigrifemora Ashm., Sympiesis	64	Nysson Latr.	192	nigrifrons Cress., Osmia	243	NYSSONINAE	192	nigrifrons (Prov.), Microbembex	196	Nyzeophilus Foerst.	47	nigrifrons Titus, Colletes	208			nigrigena Mich., Osmia[s]	243			nigrior Mich., Anthocopa	240	oahuensis Ashm., Idechthis	59	nigrior Tow., Dipogon[s]	172	obductus Fox, Tachytes	188	nigripennis Prov., Anomalon	62	oblata Weld, Callirhytis	88			obliqua (Say), Melissodes	251																																																								
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Nesomyrmex Whlr.	130	nigromaculata Timb., Nomadopsis	229	Netelia Gray	40	nigropilosella Cam., Plesia	107	Neuroterus Htg.	86	nigropyga Shen., Atanycolus	33	Neurotoma Knw.	8	nigroscutum Midd., Neodiprion	10	neutralis Cress., Ichneumon	52	nigrosignata Ckll., Melissodes	252	nevadense (Cwfd.), Lasioglossum	230	nigrosternum (Morr.), Cremnops	25	nevadensis Ashm., Bracon	34	nigrosus Ashm., Kleidotoma	88	nevadensis (Cam.), Symmorphus[s]	165	nigrotrochanterica (Vier.), Agathis	26	nevadensis Ckll., Perdita[s]	225	nigrum Robt., Oxybelus	202	nevadensis Cole, Lasius	149	nigrovarius Prov., Ophion	62	nevadensis (Cress.), Anthedonia	249	nigroviridis Timb., Perdita	225	nevadensis (Cress.), Lycogaster[s]	100	Nitela Latr.	187	nevadensis Cress., Nomia[s]	233	Nitelopterus Ashm.	187	nevadensis Kief., Aclista	92	nitens Emery, Leptothorax[s]	132	nevadensis (Kief.), Phaenoserphus	89	nitens Timb., Perdita	226	nevadensis Swenk, Colletes[s]	209	nitens Zadd., Dolerus	11	nevadensis Timb. & Mich., Proteriadess[s]	239	nitescens Timb., Colletes	208	nevadensis Whlr., Formica	157	nitida F., Spheg	170	nevadensis Whlr., Leptothorax[s]	132	nitidicaudus Ckll., Colletes	207	Nictula Burks	54	nitidicornis Ckll., Andrena	215	nidulans Thoms., Pteromalus	77	nitidiventris Emery, Camponotus[v]	145	nifoata Ckll., Osmia	243	nitidiventris Emery, Formica[s]	153	nifoata Ckll., Osmia	244	nitidiventris (Fox), Nothocrabro	198	nigellus Emery, Iridomyrmex[s]	140	nitidivitta Mich., Anthocopa	241	niger (Ashm.), Atractodes	45	nitidus Gah., Ephedrus	18	niger (Ashm.), Phygadeuon	45	nitratu Cook, Pogonomyrmex[s]	114	niger (Ashm.), Thyasium	69	niveltarsis (Cress.), Meteorus	20	niger (Cress.), Aporus	179	nocticola Brad., Brachycistis	101	niger Fen., Chalcogonatopus	100	noctilio F., Sirex	16	niger (L.), Lasius	148	nocturna Mick., Dasymutilla	104	niger Mitch., Acricornus[s]	47	nogalensis Byars, Trachymyrmex	137	niger Perg., Dorymyrmex[v]	141	Nomada Scop.	246	niger Prov., Crabro	198	Nomadopsis Ashm.	229	nigerrimus (Scop.), Anoplius	183	Nomamyrmex Borg.	108	nigra Timb. & Mich., Proteriadess	240	Nomia Latr.	233	nigrans Krom., Solierella	187	nortoni Cress., Nomia	233	nigratorius F., Ichneumon	52	nortonii Buckl., Formica	161	nigrella Mich., Proteriadess[s]	239	Nothocrabro Pate	198	nigrella Timb., Perdita	225	Nothosmia Ashm.	244	nigrellus (Bks.), Auplopus	174	Notiochares Bks.	181	nigrescens (Cress.), Neivamyrmex	109	NOTOCYPHINI	177	nigrescens Evans, Dissomphalus	98	Notocyphus Sm.	177	nigrescens Martin, Urosigalphus	22	Notogonius How.	188	nigrescens Whlr., Pogonomyrmex[v]	114	Notoxylocopa Hurd	259	nigricans Cam., Acanthochalcis	83	nova-anglae Buckl., Formica	161	nigricans Tow., Proctoness	171	novae-anglae Vier., Perdita	226	nigriciauda (Vier.), Agathisia	25	novaeboracensis Buckl., Myrmica	127, 139	nigriciaudus (Fri.), Bombus[v]	260	novaeboracensis (Fitch), Camponotus	142	nigricreps Ashm., Apteroelaps	74	novifasciatus (Grlt.), Lymaenon	63	nigricreps Ashm., Prostanteris	93	Novomessor Emery	119	nigricollis Timb., Perdita	225	nubila (LaBerge), Svastra[s]	255	nigricornis F., Sirex	16	nubilipennis (Nort.), Rhadinoceraea	15	nigricornis Prov., Pteromalus	84	nuda Robt., Andrena	215	nigricorpus Mitch., Sphecodes	232	nuda Tow., Pimpla	38	nigricoxa (Prov.), Agathis	26	nudus Robt., Colletes	208	nigriculus Wlkl., Ichneumon	52	nulbilineatus (!) Hopk., Hippocephalus	68	nigridens Wesm., Phaenogenes	48	nulla LaBerge, Melissodes[s]	250	nigridorsis Vier., Macrocentrus	21	nuperus Cress., Bracon	34	nigrifacies Timb., Perdita	225	Nylanderia Emery	146	nigrifemora Ashm., Sympiesis	64	Nysson Latr.	192	nigrifrons Cress., Osmia	243	NYSSONINAE	192	nigrifrons (Prov.), Microbembex	196	Nyzeophilus Foerst.	47	nigrifrons Titus, Colletes	208			nigrigena Mich., Osmia[s]	243			nigrior Mich., Anthocopa	240	oahuensis Ashm., Idechthis	59	nigrior Tow., Dipogon[s]	172	obductus Fox, Tachytes	188	nigripennis Prov., Anomalon	62	oblata Weld, Callirhytis	88			obliqua (Say), Melissodes	251																																																																
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Neuroterus Htg.	86	nigropyga Shen., Atanycolus	33	Neurotoma Knw.	8	nigroscutum Midd., Neodiprion	10	neutralis Cress., Ichneumon	52	nigrosignata Ckll., Melissodes	252	nevadense (Cwfd.), Lasioglossum	230	nigrosternum (Morr.), Cremnops	25	nevadensis Ashm., Bracon	34	nigrosus Ashm., Kleidotoma	88	nevadensis (Cam.), Symmorphus[s]	165	nigrotrochanterica (Vier.), Agathis	26	nevadensis Ckll., Perdita[s]	225	nigrum Robt., Oxybelus	202	nevadensis Cole, Lasius	149	nigrovarius Prov., Ophion	62	nevadensis (Cress.), Anthedonia	249	nigroviridis Timb., Perdita	225	nevadensis (Cress.), Lycogaster[s]	100	Nitela Latr.	187	nevadensis Cress., Nomia[s]	233	Nitelopterus Ashm.	187	nevadensis Kief., Aclista	92	nitens Emery, Leptothorax[s]	132	nevadensis (Kief.), Phaenoserphus	89	nitens Timb., Perdita	226	nevadensis Swenk, Colletes[s]	209	nitens Zadd., Dolerus	11	nevadensis Timb. & Mich., Proteriadess[s]	239	nitescens Timb., Colletes	208	nevadensis Whlr., Formica	157	nitida F., Spheg	170	nevadensis Whlr., Leptothorax[s]	132	nitidicaudus Ckll., Colletes	207	Nictula Burks	54	nitidicornis Ckll., Andrena	215	nidulans Thoms., Pteromalus	77	nitidiventris Emery, Camponotus[v]	145	nifoata Ckll., Osmia	243	nitidiventris Emery, Formica[s]	153	nifoata Ckll., Osmia	244	nitidiventris (Fox), Nothocrabro	198	nigellus Emery, Iridomyrmex[s]	140	nitidivitta Mich., Anthocopa	241	niger (Ashm.), Atractodes	45	nitidus Gah., Ephedrus	18	niger (Ashm.), Phygadeuon	45	nitratu Cook, Pogonomyrmex[s]	114	niger (Ashm.), Thyasium	69	niveltarsis (Cress.), Meteorus	20	niger (Cress.), Aporus	179	nocticola Brad., Brachycistis	101	niger Fen., Chalcogonatopus	100	noctilio F., Sirex	16	niger (L.), Lasius	148	nocturna Mick., Dasymutilla	104	niger Mitch., Acricornus[s]	47	nogalensis Byars, Trachymyrmex	137	niger Perg., Dorymyrmex[v]	141	Nomada Scop.	246	niger Prov., Crabro	198	Nomadopsis Ashm.	229	nigerrimus (Scop.), Anoplius	183	Nomamyrmex Borg.	108	nigra Timb. & Mich., Proteriadess	240	Nomia Latr.	233	nigrans Krom., Solierella	187	nortoni Cress., Nomia	233	nigratorius F., Ichneumon	52	nortonii Buckl., Formica	161	nigrella Mich., Proteriadess[s]	239	Nothocrabro Pate	198	nigrella Timb., Perdita	225	Nothosmia Ashm.	244	nigrellus (Bks.), Auplopus	174	Notiochares Bks.	181	nigrescens (Cress.), Neivamyrmex	109	NOTOCYPHINI	177	nigrescens Evans, Dissomphalus	98	Notocyphus Sm.	177	nigrescens Martin, Urosigalphus	22	Notogonius How.	188	nigrescens Whlr., Pogonomyrmex[v]	114	Notoxylocopa Hurd	259	nigricans Cam., Acanthochalcis	83	nova-anglae Buckl., Formica	161	nigricans Tow., Proctoness	171	novae-anglae Vier., Perdita	226	nigriciauda (Vier.), Agathisia	25	novaeboracensis Buckl., Myrmica	127, 139	nigriciaudus (Fri.), Bombus[v]	260	novaeboracensis (Fitch), Camponotus	142	nigricreps Ashm., Apteroelaps	74	novifasciatus (Grlt.), Lymaenon	63	nigricreps Ashm., Prostanteris	93	Novomessor Emery	119	nigricollis Timb., Perdita	225	nubila (LaBerge), Svastra[s]	255	nigricornis F., Sirex	16	nubilipennis (Nort.), Rhadinoceraea	15	nigricornis Prov., Pteromalus	84	nuda Robt., Andrena	215	nigricorpus Mitch., Sphecodes	232	nuda Tow., Pimpla	38	nigricoxa (Prov.), Agathis	26	nudus Robt., Colletes	208	nigriculus Wlkl., Ichneumon	52	nulbilineatus (!) Hopk., Hippocephalus	68	nigridens Wesm., Phaenogenes	48	nulla LaBerge, Melissodes[s]	250	nigridorsis Vier., Macrocentrus	21	nuperus Cress., Bracon	34	nigrifacies Timb., Perdita	225	Nylanderia Emery	146	nigrifemora Ashm., Sympiesis	64	Nysson Latr.	192	nigrifrons Cress., Osmia	243	NYSSONINAE	192	nigrifrons (Prov.), Microbembex	196	Nyzeophilus Foerst.	47	nigrifrons Titus, Colletes	208			nigrigena Mich., Osmia[s]	243			nigrior Mich., Anthocopa	240	oahuensis Ashm., Idechthis	59	nigrior Tow., Dipogon[s]	172	obductus Fox, Tachytes	188	nigripennis Prov., Anomalon	62	oblata Weld, Callirhytis	88			obliqua (Say), Melissodes	251																																																																								
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neutralis Cress., Ichneumon	52	nigrosignata Ckll., Melissodes	252	nevadense (Cwfd.), Lasioglossum	230	nigrosternum (Morr.), Cremnops	25	nevadensis Ashm., Bracon	34	nigrosus Ashm., Kleidotoma	88	nevadensis (Cam.), Symmorphus[s]	165	nigrotrochanterica (Vier.), Agathis	26	nevadensis Ckll., Perdita[s]	225	nigrum Robt., Oxybelus	202	nevadensis Cole, Lasius	149	nigrovarius Prov., Ophion	62	nevadensis (Cress.), Anthedonia	249	nigroviridis Timb., Perdita	225	nevadensis (Cress.), Lycogaster[s]	100	Nitela Latr.	187	nevadensis Cress., Nomia[s]	233	Nitelopterus Ashm.	187	nevadensis Kief., Aclista	92	nitens Emery, Leptothorax[s]	132	nevadensis (Kief.), Phaenoserphus	89	nitens Timb., Perdita	226	nevadensis Swenk, Colletes[s]	209	nitens Zadd., Dolerus	11	nevadensis Timb. & Mich., Proteriadess[s]	239	nitescens Timb., Colletes	208	nevadensis Whlr., Formica	157	nitida F., Spheg	170	nevadensis Whlr., Leptothorax[s]	132	nitidicaudus Ckll., Colletes	207	Nictula Burks	54	nitidicornis Ckll., Andrena	215	nidulans Thoms., Pteromalus	77	nitidiventris Emery, Camponotus[v]	145	nifoata Ckll., Osmia	243	nitidiventris Emery, Formica[s]	153	nifoata Ckll., Osmia	244	nitidiventris (Fox), Nothocrabro	198	nigellus Emery, Iridomyrmex[s]	140	nitidivitta Mich., Anthocopa	241	niger (Ashm.), Atractodes	45	nitidus Gah., Ephedrus	18	niger (Ashm.), Phygadeuon	45	nitratu Cook, Pogonomyrmex[s]	114	niger (Ashm.), Thyasium	69	niveltarsis (Cress.), Meteorus	20	niger (Cress.), Aporus	179	nocticola Brad., Brachycistis	101	niger Fen., Chalcogonatopus	100	noctilio F., Sirex	16	niger (L.), Lasius	148	nocturna Mick., Dasymutilla	104	niger Mitch., Acricornus[s]	47	nogalensis Byars, Trachymyrmex	137	niger Perg., Dorymyrmex[v]	141	Nomada Scop.	246	niger Prov., Crabro	198	Nomadopsis Ashm.	229	nigerrimus (Scop.), Anoplius	183	Nomamyrmex Borg.	108	nigra Timb. & Mich., Proteriadess	240	Nomia Latr.	233	nigrans Krom., Solierella	187	nortoni Cress., Nomia	233	nigratorius F., Ichneumon	52	nortonii Buckl., Formica	161	nigrella Mich., Proteriadess[s]	239	Nothocrabro Pate	198	nigrella Timb., Perdita	225	Nothosmia Ashm.	244	nigrellus (Bks.), Auplopus	174	Notiochares Bks.	181	nigrescens (Cress.), Neivamyrmex	109	NOTOCYPHINI	177	nigrescens Evans, Dissomphalus	98	Notocyphus Sm.	177	nigrescens Martin, Urosigalphus	22	Notogonius How.	188	nigrescens Whlr., Pogonomyrmex[v]	114	Notoxylocopa Hurd	259	nigricans Cam., Acanthochalcis	83	nova-anglae Buckl., Formica	161	nigricans Tow., Proctoness	171	novae-anglae Vier., Perdita	226	nigriciauda (Vier.), Agathisia	25	novaeboracensis Buckl., Myrmica	127, 139	nigriciaudus (Fri.), Bombus[v]	260	novaeboracensis (Fitch), Camponotus	142	nigricreps Ashm., Apteroelaps	74	novifasciatus (Grlt.), Lymaenon	63	nigricreps Ashm., Prostanteris	93	Novomessor Emery	119	nigricollis Timb., Perdita	225	nubila (LaBerge), Svastra[s]	255	nigricornis F., Sirex	16	nubilipennis (Nort.), Rhadinoceraea	15	nigricornis Prov., Pteromalus	84	nuda Robt., Andrena	215	nigricorpus Mitch., Sphecodes	232	nuda Tow., Pimpla	38	nigricoxa (Prov.), Agathis	26	nudus Robt., Colletes	208	nigriculus Wlkl., Ichneumon	52	nulbilineatus (!) Hopk., Hippocephalus	68	nigridens Wesm., Phaenogenes	48	nulla LaBerge, Melissodes[s]	250	nigridorsis Vier., Macrocentrus	21	nuperus Cress., Bracon	34	nigrifacies Timb., Perdita	225	Nylanderia Emery	146	nigrifemora Ashm., Sympiesis	64	Nysson Latr.	192	nigrifrons Cress., Osmia	243	NYSSONINAE	192	nigrifrons (Prov.), Microbembex	196	Nyzeophilus Foerst.	47	nigrifrons Titus, Colletes	208			nigrigena Mich., Osmia[s]	243			nigrior Mich., Anthocopa	240	oahuensis Ashm., Idechthis	59	nigrior Tow., Dipogon[s]	172	obductus Fox, Tachytes	188	nigripennis Prov., Anomalon	62	oblata Weld, Callirhytis	88			obliqua (Say), Melissodes	251																																																																																
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nevadensis (Cam.), Symmorphus[s]	165	nigrotrochanterica (Vier.), Agathis	26	nevadensis Ckll., Perdita[s]	225	nigrum Robt., Oxybelus	202	nevadensis Cole, Lasius	149	nigrovarius Prov., Ophion	62	nevadensis (Cress.), Anthedonia	249	nigroviridis Timb., Perdita	225	nevadensis (Cress.), Lycogaster[s]	100	Nitela Latr.	187	nevadensis Cress., Nomia[s]	233	Nitelopterus Ashm.	187	nevadensis Kief., Aclista	92	nitens Emery, Leptothorax[s]	132	nevadensis (Kief.), Phaenoserphus	89	nitens Timb., Perdita	226	nevadensis Swenk, Colletes[s]	209	nitens Zadd., Dolerus	11	nevadensis Timb. & Mich., Proteriadess[s]	239	nitescens Timb., Colletes	208	nevadensis Whlr., Formica	157	nitida F., Spheg	170	nevadensis Whlr., Leptothorax[s]	132	nitidicaudus Ckll., Colletes	207	Nictula Burks	54	nitidicornis Ckll., Andrena	215	nidulans Thoms., Pteromalus	77	nitidiventris Emery, Camponotus[v]	145	nifoata Ckll., Osmia	243	nitidiventris Emery, Formica[s]	153	nifoata Ckll., Osmia	244	nitidiventris (Fox), Nothocrabro	198	nigellus Emery, Iridomyrmex[s]	140	nitidivitta Mich., Anthocopa	241	niger (Ashm.), Atractodes	45	nitidus Gah., Ephedrus	18	niger (Ashm.), Phygadeuon	45	nitratu Cook, Pogonomyrmex[s]	114	niger (Ashm.), Thyasium	69	niveltarsis (Cress.), Meteorus	20	niger (Cress.), Aporus	179	nocticola Brad., Brachycistis	101	niger Fen., Chalcogonatopus	100	noctilio F., Sirex	16	niger (L.), Lasius	148	nocturna Mick., Dasymutilla	104	niger Mitch., Acricornus[s]	47	nogalensis Byars, Trachymyrmex	137	niger Perg., Dorymyrmex[v]	141	Nomada Scop.	246	niger Prov., Crabro	198	Nomadopsis Ashm.	229	nigerrimus (Scop.), Anoplius	183	Nomamyrmex Borg.	108	nigra Timb. & Mich., Proteriadess	240	Nomia Latr.	233	nigrans Krom., Solierella	187	nortoni Cress., Nomia	233	nigratorius F., Ichneumon	52	nortonii Buckl., Formica	161	nigrella Mich., Proteriadess[s]	239	Nothocrabro Pate	198	nigrella Timb., Perdita	225	Nothosmia Ashm.	244	nigrellus (Bks.), Auplopus	174	Notiochares Bks.	181	nigrescens (Cress.), Neivamyrmex	109	NOTOCYPHINI	177	nigrescens Evans, Dissomphalus	98	Notocyphus Sm.	177	nigrescens Martin, Urosigalphus	22	Notogonius How.	188	nigrescens Whlr., Pogonomyrmex[v]	114	Notoxylocopa Hurd	259	nigricans Cam., Acanthochalcis	83	nova-anglae Buckl., Formica	161	nigricans Tow., Proctoness	171	novae-anglae Vier., Perdita	226	nigriciauda (Vier.), Agathisia	25	novaeboracensis Buckl., Myrmica	127, 139	nigriciaudus (Fri.), Bombus[v]	260	novaeboracensis (Fitch), Camponotus	142	nigricreps Ashm., Apteroelaps	74	novifasciatus (Grlt.), Lymaenon	63	nigricreps Ashm., Prostanteris	93	Novomessor Emery	119	nigricollis Timb., Perdita	225	nubila (LaBerge), Svastra[s]	255	nigricornis F., Sirex	16	nubilipennis (Nort.), Rhadinoceraea	15	nigricornis Prov., Pteromalus	84	nuda Robt., Andrena	215	nigricorpus Mitch., Sphecodes	232	nuda Tow., Pimpla	38	nigricoxa (Prov.), Agathis	26	nudus Robt., Colletes	208	nigriculus Wlkl., Ichneumon	52	nulbilineatus (!) Hopk., Hippocephalus	68	nigridens Wesm., Phaenogenes	48	nulla LaBerge, Melissodes[s]	250	nigridorsis Vier., Macrocentrus	21	nuperus Cress., Bracon	34	nigrifacies Timb., Perdita	225	Nylanderia Emery	146	nigrifemora Ashm., Sympiesis	64	Nysson Latr.	192	nigrifrons Cress., Osmia	243	NYSSONINAE	192	nigrifrons (Prov.), Microbembex	196	Nyzeophilus Foerst.	47	nigrifrons Titus, Colletes	208			nigrigena Mich., Osmia[s]	243			nigrior Mich., Anthocopa	240	oahuensis Ashm., Idechthis	59	nigrior Tow., Dipogon[s]	172	obductus Fox, Tachytes	188	nigripennis Prov., Anomalon	62	oblata Weld, Callirhytis	88			obliqua (Say), Melissodes	251																																																																																												
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nevadensis (Cress.), Anthedonia	249	nigroviridis Timb., Perdita	225	nevadensis (Cress.), Lycogaster[s]	100	Nitela Latr.	187	nevadensis Cress., Nomia[s]	233	Nitelopterus Ashm.	187	nevadensis Kief., Aclista	92	nitens Emery, Leptothorax[s]	132	nevadensis (Kief.), Phaenoserphus	89	nitens Timb., Perdita	226	nevadensis Swenk, Colletes[s]	209	nitens Zadd., Dolerus	11	nevadensis Timb. & Mich., Proteriadess[s]	239	nitescens Timb., Colletes	208	nevadensis Whlr., Formica	157	nitida F., Spheg	170	nevadensis Whlr., Leptothorax[s]	132	nitidicaudus Ckll., Colletes	207	Nictula Burks	54	nitidicornis Ckll., Andrena	215	nidulans Thoms., Pteromalus	77	nitidiventris Emery, Camponotus[v]	145	nifoata Ckll., Osmia	243	nitidiventris Emery, Formica[s]	153	nifoata Ckll., Osmia	244	nitidiventris (Fox), Nothocrabro	198	nigellus Emery, Iridomyrmex[s]	140	nitidivitta Mich., Anthocopa	241	niger (Ashm.), Atractodes	45	nitidus Gah., Ephedrus	18	niger (Ashm.), Phygadeuon	45	nitratu Cook, Pogonomyrmex[s]	114	niger (Ashm.), Thyasium	69	niveltarsis (Cress.), Meteorus	20	niger (Cress.), Aporus	179	nocticola Brad., Brachycistis	101	niger Fen., Chalcogonatopus	100	noctilio F., Sirex	16	niger (L.), Lasius	148	nocturna Mick., Dasymutilla	104	niger Mitch., Acricornus[s]	47	nogalensis Byars, Trachymyrmex	137	niger Perg., Dorymyrmex[v]	141	Nomada Scop.	246	niger Prov., Crabro	198	Nomadopsis Ashm.	229	nigerrimus (Scop.), Anoplius	183	Nomamyrmex Borg.	108	nigra Timb. & Mich., Proteriadess	240	Nomia Latr.	233	nigrans Krom., Solierella	187	nortoni Cress., Nomia	233	nigratorius F., Ichneumon	52	nortonii Buckl., Formica	161	nigrella Mich., Proteriadess[s]	239	Nothocrabro Pate	198	nigrella Timb., Perdita	225	Nothosmia Ashm.	244	nigrellus (Bks.), Auplopus	174	Notiochares Bks.	181	nigrescens (Cress.), Neivamyrmex	109	NOTOCYPHINI	177	nigrescens Evans, Dissomphalus	98	Notocyphus Sm.	177	nigrescens Martin, Urosigalphus	22	Notogonius How.	188	nigrescens Whlr., Pogonomyrmex[v]	114	Notoxylocopa Hurd	259	nigricans Cam., Acanthochalcis	83	nova-anglae Buckl., Formica	161	nigricans Tow., Proctoness	171	novae-anglae Vier., Perdita	226	nigriciauda (Vier.), Agathisia	25	novaeboracensis Buckl., Myrmica	127, 139	nigriciaudus (Fri.), Bombus[v]	260	novaeboracensis (Fitch), Camponotus	142	nigricreps Ashm., Apteroelaps	74	novifasciatus (Grlt.), Lymaenon	63	nigricreps Ashm., Prostanteris	93	Novomessor Emery	119	nigricollis Timb., Perdita	225	nubila (LaBerge), Svastra[s]	255	nigricornis F., Sirex	16	nubilipennis (Nort.), Rhadinoceraea	15	nigricornis Prov., Pteromalus	84	nuda Robt., Andrena	215	nigricorpus Mitch., Sphecodes	232	nuda Tow., Pimpla	38	nigricoxa (Prov.), Agathis	26	nudus Robt., Colletes	208	nigriculus Wlkl., Ichneumon	52	nulbilineatus (!) Hopk., Hippocephalus	68	nigridens Wesm., Phaenogenes	48	nulla LaBerge, Melissodes[s]	250	nigridorsis Vier., Macrocentrus	21	nuperus Cress., Bracon	34	nigrifacies Timb., Perdita	225	Nylanderia Emery	146	nigrifemora Ashm., Sympiesis	64	Nysson Latr.	192	nigrifrons Cress., Osmia	243	NYSSONINAE	192	nigrifrons (Prov.), Microbembex	196	Nyzeophilus Foerst.	47	nigrifrons Titus, Colletes	208			nigrigena Mich., Osmia[s]	243			nigrior Mich., Anthocopa	240	oahuensis Ashm., Idechthis	59	nigrior Tow., Dipogon[s]	172	obductus Fox, Tachytes	188	nigripennis Prov., Anomalon	62	oblata Weld, Callirhytis	88			obliqua (Say), Melissodes	251																																																																																																								
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nevadensis Kief., Aclista	92	nitens Emery, Leptothorax[s]	132	nevadensis (Kief.), Phaenoserphus	89	nitens Timb., Perdita	226	nevadensis Swenk, Colletes[s]	209	nitens Zadd., Dolerus	11	nevadensis Timb. & Mich., Proteriadess[s]	239	nitescens Timb., Colletes	208	nevadensis Whlr., Formica	157	nitida F., Spheg	170	nevadensis Whlr., Leptothorax[s]	132	nitidicaudus Ckll., Colletes	207	Nictula Burks	54	nitidicornis Ckll., Andrena	215	nidulans Thoms., Pteromalus	77	nitidiventris Emery, Camponotus[v]	145	nifoata Ckll., Osmia	243	nitidiventris Emery, Formica[s]	153	nifoata Ckll., Osmia	244	nitidiventris (Fox), Nothocrabro	198	nigellus Emery, Iridomyrmex[s]	140	nitidivitta Mich., Anthocopa	241	niger (Ashm.), Atractodes	45	nitidus Gah., Ephedrus	18	niger (Ashm.), Phygadeuon	45	nitratu Cook, Pogonomyrmex[s]	114	niger (Ashm.), Thyasium	69	niveltarsis (Cress.), Meteorus	20	niger (Cress.), Aporus	179	nocticola Brad., Brachycistis	101	niger Fen., Chalcogonatopus	100	noctilio F., Sirex	16	niger (L.), Lasius	148	nocturna Mick., Dasymutilla	104	niger Mitch., Acricornus[s]	47	nogalensis Byars, Trachymyrmex	137	niger Perg., Dorymyrmex[v]	141	Nomada Scop.	246	niger Prov., Crabro	198	Nomadopsis Ashm.	229	nigerrimus (Scop.), Anoplius	183	Nomamyrmex Borg.	108	nigra Timb. & Mich., Proteriadess	240	Nomia Latr.	233	nigrans Krom., Solierella	187	nortoni Cress., Nomia	233	nigratorius F., Ichneumon	52	nortonii Buckl., Formica	161	nigrella Mich., Proteriadess[s]	239	Nothocrabro Pate	198	nigrella Timb., Perdita	225	Nothosmia Ashm.	244	nigrellus (Bks.), Auplopus	174	Notiochares Bks.	181	nigrescens (Cress.), Neivamyrmex	109	NOTOCYPHINI	177	nigrescens Evans, Dissomphalus	98	Notocyphus Sm.	177	nigrescens Martin, Urosigalphus	22	Notogonius How.	188	nigrescens Whlr., Pogonomyrmex[v]	114	Notoxylocopa Hurd	259	nigricans Cam., Acanthochalcis	83	nova-anglae Buckl., Formica	161	nigricans Tow., Proctoness	171	novae-anglae Vier., Perdita	226	nigriciauda (Vier.), Agathisia	25	novaeboracensis Buckl., Myrmica	127, 139	nigriciaudus (Fri.), Bombus[v]	260	novaeboracensis (Fitch), Camponotus	142	nigricreps Ashm., Apteroelaps	74	novifasciatus (Grlt.), Lymaenon	63	nigricreps Ashm., Prostanteris	93	Novomessor Emery	119	nigricollis Timb., Perdita	225	nubila (LaBerge), Svastra[s]	255	nigricornis F., Sirex	16	nubilipennis (Nort.), Rhadinoceraea	15	nigricornis Prov., Pteromalus	84	nuda Robt., Andrena	215	nigricorpus Mitch., Sphecodes	232	nuda Tow., Pimpla	38	nigricoxa (Prov.), Agathis	26	nudus Robt., Colletes	208	nigriculus Wlkl., Ichneumon	52	nulbilineatus (!) Hopk., Hippocephalus	68	nigridens Wesm., Phaenogenes	48	nulla LaBerge, Melissodes[s]	250	nigridorsis Vier., Macrocentrus	21	nuperus Cress., Bracon	34	nigrifacies Timb., Perdita	225	Nylanderia Emery	146	nigrifemora Ashm., Sympiesis	64	Nysson Latr.	192	nigrifrons Cress., Osmia	243	NYSSONINAE	192	nigrifrons (Prov.), Microbembex	196	Nyzeophilus Foerst.	47	nigrifrons Titus, Colletes	208			nigrigena Mich., Osmia[s]	243			nigrior Mich., Anthocopa	240	oahuensis Ashm., Idechthis	59	nigrior Tow., Dipogon[s]	172	obductus Fox, Tachytes	188	nigripennis Prov., Anomalon	62	oblata Weld, Callirhytis	88			obliqua (Say), Melissodes	251																																																																																																																				
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nevadensis Whlr., Formica	157	nitida F., Spheg	170	nevadensis Whlr., Leptothorax[s]	132	nitidicaudus Ckll., Colletes	207	Nictula Burks	54	nitidicornis Ckll., Andrena	215	nidulans Thoms., Pteromalus	77	nitidiventris Emery, Camponotus[v]	145	nifoata Ckll., Osmia	243	nitidiventris Emery, Formica[s]	153	nifoata Ckll., Osmia	244	nitidiventris (Fox), Nothocrabro	198	nigellus Emery, Iridomyrmex[s]	140	nitidivitta Mich., Anthocopa	241	niger (Ashm.), Atractodes	45	nitidus Gah., Ephedrus	18	niger (Ashm.), Phygadeuon	45	nitratu Cook, Pogonomyrmex[s]	114	niger (Ashm.), Thyasium	69	niveltarsis (Cress.), Meteorus	20	niger (Cress.), Aporus	179	nocticola Brad., Brachycistis	101	niger Fen., Chalcogonatopus	100	noctilio F., Sirex	16	niger (L.), Lasius	148	nocturna Mick., Dasymutilla	104	niger Mitch., Acricornus[s]	47	nogalensis Byars, Trachymyrmex	137	niger Perg., Dorymyrmex[v]	141	Nomada Scop.	246	niger Prov., Crabro	198	Nomadopsis Ashm.	229	nigerrimus (Scop.), Anoplius	183	Nomamyrmex Borg.	108	nigra Timb. & Mich., Proteriadess	240	Nomia Latr.	233	nigrans Krom., Solierella	187	nortoni Cress., Nomia	233	nigratorius F., Ichneumon	52	nortonii Buckl., Formica	161	nigrella Mich., Proteriadess[s]	239	Nothocrabro Pate	198	nigrella Timb., Perdita	225	Nothosmia Ashm.	244	nigrellus (Bks.), Auplopus	174	Notiochares Bks.	181	nigrescens (Cress.), Neivamyrmex	109	NOTOCYPHINI	177	nigrescens Evans, Dissomphalus	98	Notocyphus Sm.	177	nigrescens Martin, Urosigalphus	22	Notogonius How.	188	nigrescens Whlr., Pogonomyrmex[v]	114	Notoxylocopa Hurd	259	nigricans Cam., Acanthochalcis	83	nova-anglae Buckl., Formica	161	nigricans Tow., Proctoness	171	novae-anglae Vier., Perdita	226	nigriciauda (Vier.), Agathisia	25	novaeboracensis Buckl., Myrmica	127, 139	nigriciaudus (Fri.), Bombus[v]	260	novaeboracensis (Fitch), Camponotus	142	nigricreps Ashm., Apteroelaps	74	novifasciatus (Grlt.), Lymaenon	63	nigricreps Ashm., Prostanteris	93	Novomessor Emery	119	nigricollis Timb., Perdita	225	nubila (LaBerge), Svastra[s]	255	nigricornis F., Sirex	16	nubilipennis (Nort.), Rhadinoceraea	15	nigricornis Prov., Pteromalus	84	nuda Robt., Andrena	215	nigricorpus Mitch., Sphecodes	232	nuda Tow., Pimpla	38	nigricoxa (Prov.), Agathis	26	nudus Robt., Colletes	208	nigriculus Wlkl., Ichneumon	52	nulbilineatus (!) Hopk., Hippocephalus	68	nigridens Wesm., Phaenogenes	48	nulla LaBerge, Melissodes[s]	250	nigridorsis Vier., Macrocentrus	21	nuperus Cress., Bracon	34	nigrifacies Timb., Perdita	225	Nylanderia Emery	146	nigrifemora Ashm., Sympiesis	64	Nysson Latr.	192	nigrifrons Cress., Osmia	243	NYSSONINAE	192	nigrifrons (Prov.), Microbembex	196	Nyzeophilus Foerst.	47	nigrifrons Titus, Colletes	208			nigrigena Mich., Osmia[s]	243			nigrior Mich., Anthocopa	240	oahuensis Ashm., Idechthis	59	nigrior Tow., Dipogon[s]	172	obductus Fox, Tachytes	188	nigripennis Prov., Anomalon	62	oblata Weld, Callirhytis	88			obliqua (Say), Melissodes	251																																																																																																																																				
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nifoata Ckll., Osmia	243	nitidiventris Emery, Formica[s]	153	nifoata Ckll., Osmia	244	nitidiventris (Fox), Nothocrabro	198	nigellus Emery, Iridomyrmex[s]	140	nitidivitta Mich., Anthocopa	241	niger (Ashm.), Atractodes	45	nitidus Gah., Ephedrus	18	niger (Ashm.), Phygadeuon	45	nitratu Cook, Pogonomyrmex[s]	114	niger (Ashm.), Thyasium	69	niveltarsis (Cress.), Meteorus	20	niger (Cress.), Aporus	179	nocticola Brad., Brachycistis	101	niger Fen., Chalcogonatopus	100	noctilio F., Sirex	16	niger (L.), Lasius	148	nocturna Mick., Dasymutilla	104	niger Mitch., Acricornus[s]	47	nogalensis Byars, Trachymyrmex	137	niger Perg., Dorymyrmex[v]	141	Nomada Scop.	246	niger Prov., Crabro	198	Nomadopsis Ashm.	229	nigerrimus (Scop.), Anoplius	183	Nomamyrmex Borg.	108	nigra Timb. & Mich., Proteriadess	240	Nomia Latr.	233	nigrans Krom., Solierella	187	nortoni Cress., Nomia	233	nigratorius F., Ichneumon	52	nortonii Buckl., Formica	161	nigrella Mich., Proteriadess[s]	239	Nothocrabro Pate	198	nigrella Timb., Perdita	225	Nothosmia Ashm.	244	nigrellus (Bks.), Auplopus	174	Notiochares Bks.	181	nigrescens (Cress.), Neivamyrmex	109	NOTOCYPHINI	177	nigrescens Evans, Dissomphalus	98	Notocyphus Sm.	177	nigrescens Martin, Urosigalphus	22	Notogonius How.	188	nigrescens Whlr., Pogonomyrmex[v]	114	Notoxylocopa Hurd	259	nigricans Cam., Acanthochalcis	83	nova-anglae Buckl., Formica	161	nigricans Tow., Proctoness	171	novae-anglae Vier., Perdita	226	nigriciauda (Vier.), Agathisia	25	novaeboracensis Buckl., Myrmica	127, 139	nigriciaudus (Fri.), Bombus[v]	260	novaeboracensis (Fitch), Camponotus	142	nigricreps Ashm., Apteroelaps	74	novifasciatus (Grlt.), Lymaenon	63	nigricreps Ashm., Prostanteris	93	Novomessor Emery	119	nigricollis Timb., Perdita	225	nubila (LaBerge), Svastra[s]	255	nigricornis F., Sirex	16	nubilipennis (Nort.), Rhadinoceraea	15	nigricornis Prov., Pteromalus	84	nuda Robt., Andrena	215	nigricorpus Mitch., Sphecodes	232	nuda Tow., Pimpla	38	nigricoxa (Prov.), Agathis	26	nudus Robt., Colletes	208	nigriculus Wlkl., Ichneumon	52	nulbilineatus (!) Hopk., Hippocephalus	68	nigridens Wesm., Phaenogenes	48	nulla LaBerge, Melissodes[s]	250	nigridorsis Vier., Macrocentrus	21	nuperus Cress., Bracon	34	nigrifacies Timb., Perdita	225	Nylanderia Emery	146	nigrifemora Ashm., Sympiesis	64	Nysson Latr.	192	nigrifrons Cress., Osmia	243	NYSSONINAE	192	nigrifrons (Prov.), Microbembex	196	Nyzeophilus Foerst.	47	nigrifrons Titus, Colletes	208			nigrigena Mich., Osmia[s]	243			nigrior Mich., Anthocopa	240	oahuensis Ashm., Idechthis	59	nigrior Tow., Dipogon[s]	172	obductus Fox, Tachytes	188	nigripennis Prov., Anomalon	62	oblata Weld, Callirhytis	88			obliqua (Say), Melissodes	251																																																																																																																																																				
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niger (Ashm.), Thyasium	69	niveltarsis (Cress.), Meteorus	20	niger (Cress.), Aporus	179	nocticola Brad., Brachycistis	101	niger Fen., Chalcogonatopus	100	noctilio F., Sirex	16	niger (L.), Lasius	148	nocturna Mick., Dasymutilla	104	niger Mitch., Acricornus[s]	47	nogalensis Byars, Trachymyrmex	137	niger Perg., Dorymyrmex[v]	141	Nomada Scop.	246	niger Prov., Crabro	198	Nomadopsis Ashm.	229	nigerrimus (Scop.), Anoplius	183	Nomamyrmex Borg.	108	nigra Timb. & Mich., Proteriadess	240	Nomia Latr.	233	nigrans Krom., Solierella	187	nortoni Cress., Nomia	233	nigratorius F., Ichneumon	52	nortonii Buckl., Formica	161	nigrella Mich., Proteriadess[s]	239	Nothocrabro Pate	198	nigrella Timb., Perdita	225	Nothosmia Ashm.	244	nigrellus (Bks.), Auplopus	174	Notiochares Bks.	181	nigrescens (Cress.), Neivamyrmex	109	NOTOCYPHINI	177	nigrescens Evans, Dissomphalus	98	Notocyphus Sm.	177	nigrescens Martin, Urosigalphus	22	Notogonius How.	188	nigrescens Whlr., Pogonomyrmex[v]	114	Notoxylocopa Hurd	259	nigricans Cam., Acanthochalcis	83	nova-anglae Buckl., Formica	161	nigricans Tow., Proctoness	171	novae-anglae Vier., Perdita	226	nigriciauda (Vier.), Agathisia	25	novaeboracensis Buckl., Myrmica	127, 139	nigriciaudus (Fri.), Bombus[v]	260	novaeboracensis (Fitch), Camponotus	142	nigricreps Ashm., Apteroelaps	74	novifasciatus (Grlt.), Lymaenon	63	nigricreps Ashm., Prostanteris	93	Novomessor Emery	119	nigricollis Timb., Perdita	225	nubila (LaBerge), Svastra[s]	255	nigricornis F., Sirex	16	nubilipennis (Nort.), Rhadinoceraea	15	nigricornis Prov., Pteromalus	84	nuda Robt., Andrena	215	nigricorpus Mitch., Sphecodes	232	nuda Tow., Pimpla	38	nigricoxa (Prov.), Agathis	26	nudus Robt., Colletes	208	nigriculus Wlkl., Ichneumon	52	nulbilineatus (!) Hopk., Hippocephalus	68	nigridens Wesm., Phaenogenes	48	nulla LaBerge, Melissodes[s]	250	nigridorsis Vier., Macrocentrus	21	nuperus Cress., Bracon	34	nigrifacies Timb., Perdita	225	Nylanderia Emery	146	nigrifemora Ashm., Sympiesis	64	Nysson Latr.	192	nigrifrons Cress., Osmia	243	NYSSONINAE	192	nigrifrons (Prov.), Microbembex	196	Nyzeophilus Foerst.	47	nigrifrons Titus, Colletes	208			nigrigena Mich., Osmia[s]	243			nigrior Mich., Anthocopa	240	oahuensis Ashm., Idechthis	59	nigrior Tow., Dipogon[s]	172	obductus Fox, Tachytes	188	nigripennis Prov., Anomalon	62	oblata Weld, Callirhytis	88			obliqua (Say), Melissodes	251																																																																																																																																																																								
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niger Prov., Crabro	198	Nomadopsis Ashm.	229	nigerrimus (Scop.), Anoplius	183	Nomamyrmex Borg.	108	nigra Timb. & Mich., Proteriadess	240	Nomia Latr.	233	nigrans Krom., Solierella	187	nortoni Cress., Nomia	233	nigratorius F., Ichneumon	52	nortonii Buckl., Formica	161	nigrella Mich., Proteriadess[s]	239	Nothocrabro Pate	198	nigrella Timb., Perdita	225	Nothosmia Ashm.	244	nigrellus (Bks.), Auplopus	174	Notiochares Bks.	181	nigrescens (Cress.), Neivamyrmex	109	NOTOCYPHINI	177	nigrescens Evans, Dissomphalus	98	Notocyphus Sm.	177	nigrescens Martin, Urosigalphus	22	Notogonius How.	188	nigrescens Whlr., Pogonomyrmex[v]	114	Notoxylocopa Hurd	259	nigricans Cam., Acanthochalcis	83	nova-anglae Buckl., Formica	161	nigricans Tow., Proctoness	171	novae-anglae Vier., Perdita	226	nigriciauda (Vier.), Agathisia	25	novaeboracensis Buckl., Myrmica	127, 139	nigriciaudus (Fri.), Bombus[v]	260	novaeboracensis (Fitch), Camponotus	142	nigricreps Ashm., Apteroelaps	74	novifasciatus (Grlt.), Lymaenon	63	nigricreps Ashm., Prostanteris	93	Novomessor Emery	119	nigricollis Timb., Perdita	225	nubila (LaBerge), Svastra[s]	255	nigricornis F., Sirex	16	nubilipennis (Nort.), Rhadinoceraea	15	nigricornis Prov., Pteromalus	84	nuda Robt., Andrena	215	nigricorpus Mitch., Sphecodes	232	nuda Tow., Pimpla	38	nigricoxa (Prov.), Agathis	26	nudus Robt., Colletes	208	nigriculus Wlkl., Ichneumon	52	nulbilineatus (!) Hopk., Hippocephalus	68	nigridens Wesm., Phaenogenes	48	nulla LaBerge, Melissodes[s]	250	nigridorsis Vier., Macrocentrus	21	nuperus Cress., Bracon	34	nigrifacies Timb., Perdita	225	Nylanderia Emery	146	nigrifemora Ashm., Sympiesis	64	Nysson Latr.	192	nigrifrons Cress., Osmia	243	NYSSONINAE	192	nigrifrons (Prov.), Microbembex	196	Nyzeophilus Foerst.	47	nigrifrons Titus, Colletes	208			nigrigena Mich., Osmia[s]	243			nigrior Mich., Anthocopa	240	oahuensis Ashm., Idechthis	59	nigrior Tow., Dipogon[s]	172	obductus Fox, Tachytes	188	nigripennis Prov., Anomalon	62	oblata Weld, Callirhytis	88			obliqua (Say), Melissodes	251																																																																																																																																																																																																
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nigricorpus Mitch., Sphecodes	232	nuda Tow., Pimpla	38	nigricoxa (Prov.), Agathis	26	nudus Robt., Colletes	208	nigriculus Wlkl., Ichneumon	52	nulbilineatus (!) Hopk., Hippocephalus	68	nigridens Wesm., Phaenogenes	48	nulla LaBerge, Melissodes[s]	250	nigridorsis Vier., Macrocentrus	21	nuperus Cress., Bracon	34	nigrifacies Timb., Perdita	225	Nylanderia Emery	146	nigrifemora Ashm., Sympiesis	64	Nysson Latr.	192	nigrifrons Cress., Osmia	243	NYSSONINAE	192	nigrifrons (Prov.), Microbembex	196	Nyzeophilus Foerst.	47	nigrifrons Titus, Colletes	208			nigrigena Mich., Osmia[s]	243			nigrior Mich., Anthocopa	240	oahuensis Ashm., Idechthis	59	nigrior Tow., Dipogon[s]	172	obductus Fox, Tachytes	188	nigripennis Prov., Anomalon	62	oblata Weld, Callirhytis	88			obliqua (Say), Melissodes	251																																																																																																																																																																																																																																																																																				
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<i>obliqua</i> (Say), <i>Svastra</i> [s]	254	<i>Oncophanes</i> Foerst.	35
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